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(54) **FRAGRANCE COMPOSITIONS AND USES THEREOF**

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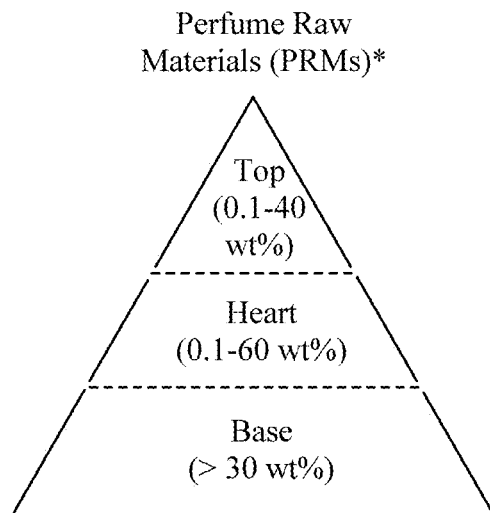
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(57) **ABSTRACT**

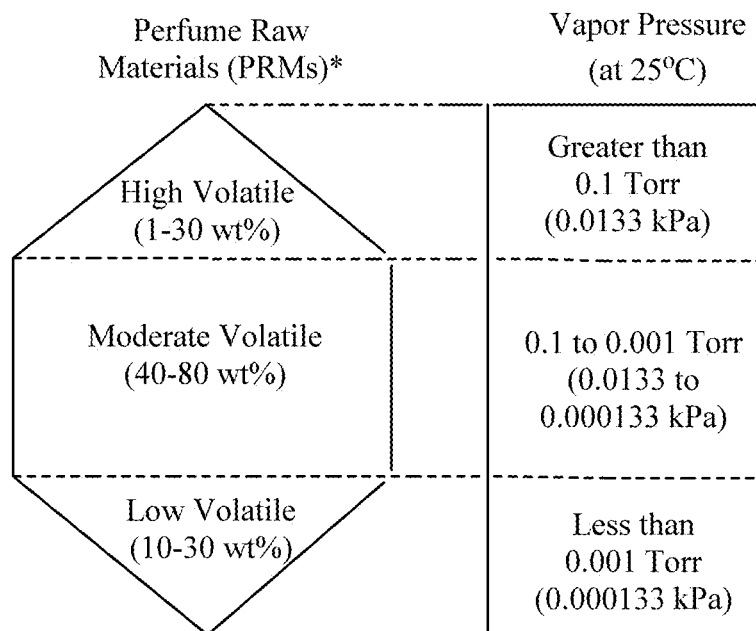
The present invention relates to a composition having improved or enhanced fidelity and/or longevity of the fragrance profile, comprising fragrance materials in a diamond construction and at least one substantially non-odorous fragrance modulator. The invention also relates to methods of use of the compositions for perfuming suitable substrates, including hard surfaces and body parts, particularly skin and hair.

Figure 1a – Classical Fragrance Pyramid Construction

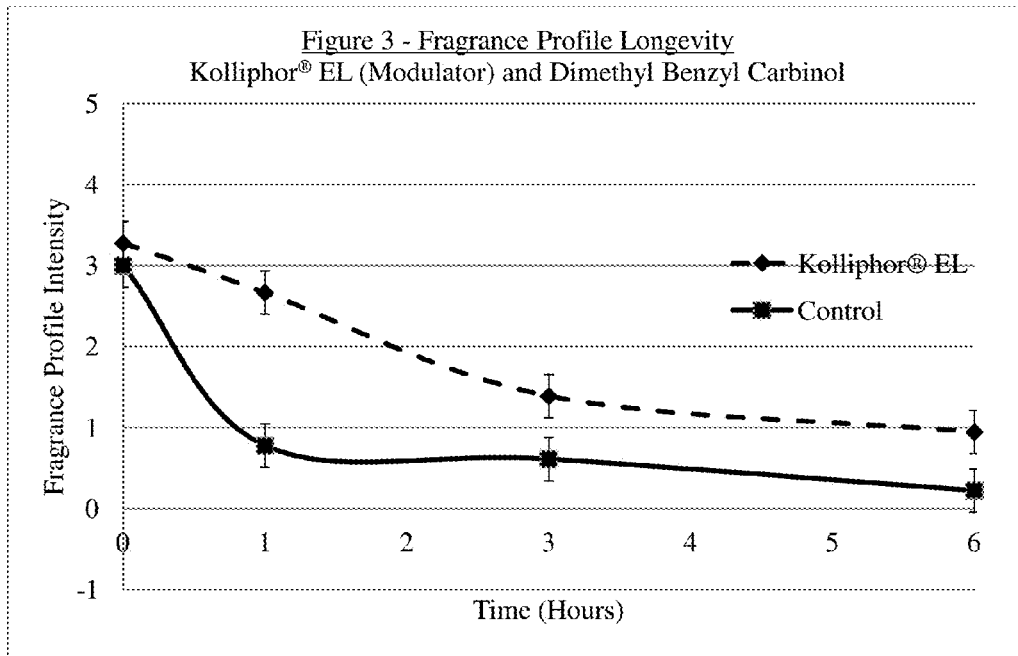
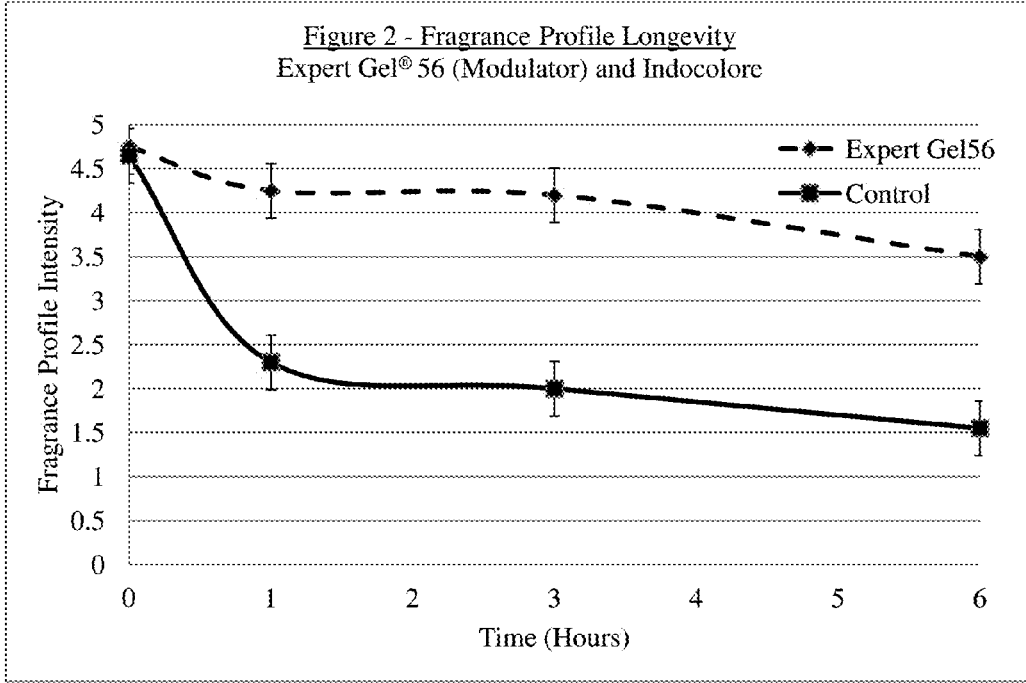


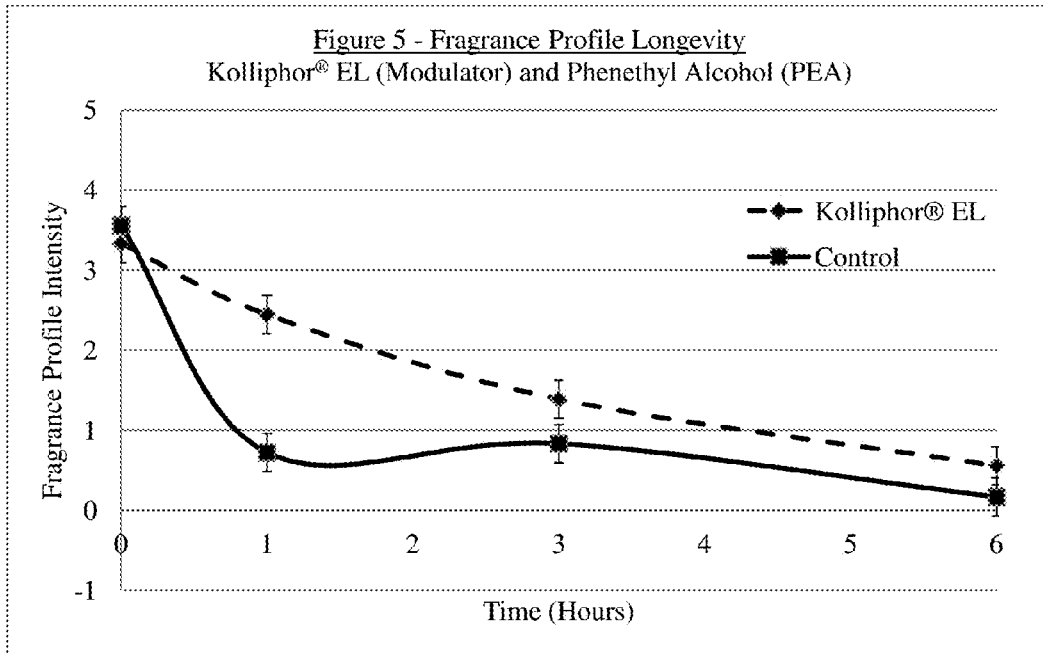
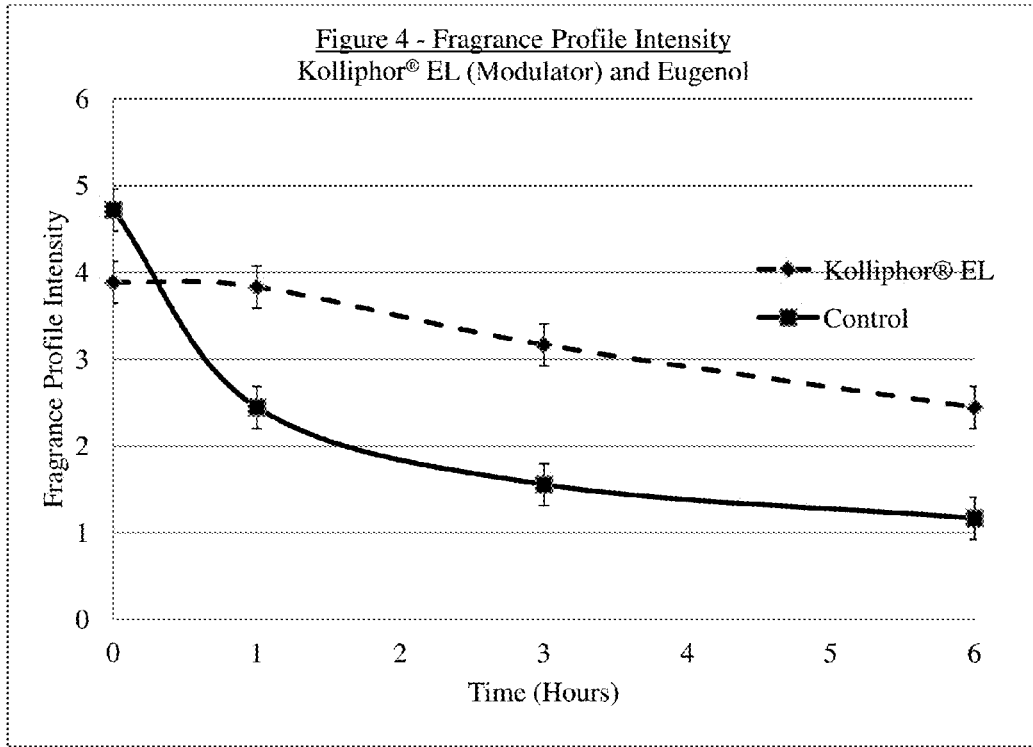
* wt% is relative to the total weight of the fragrance component.

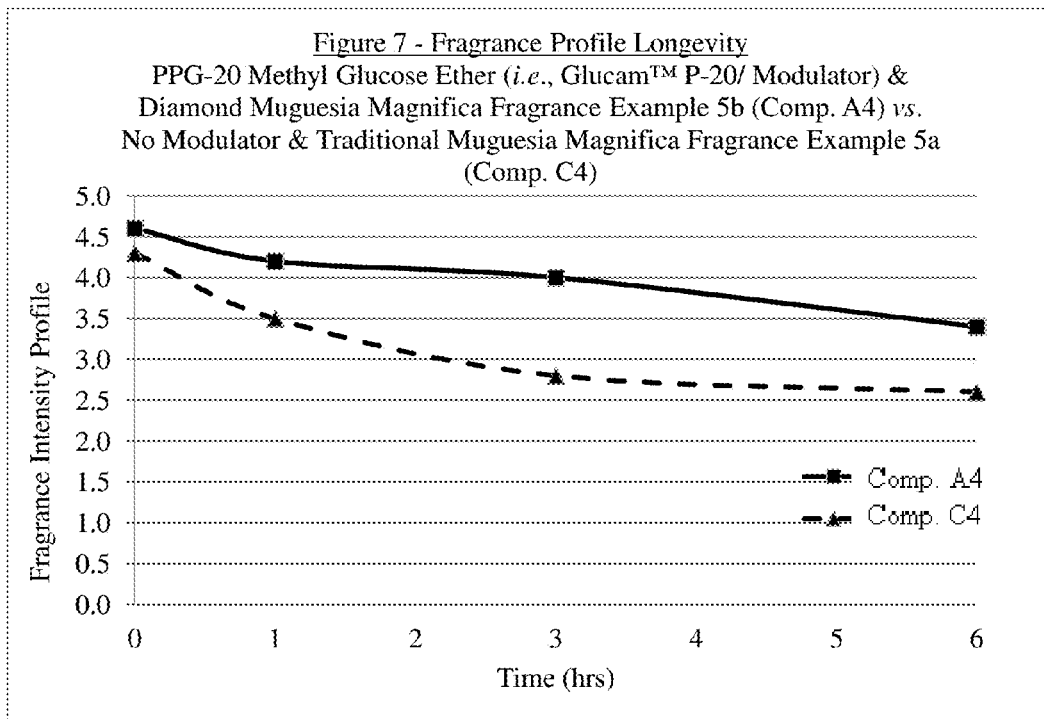
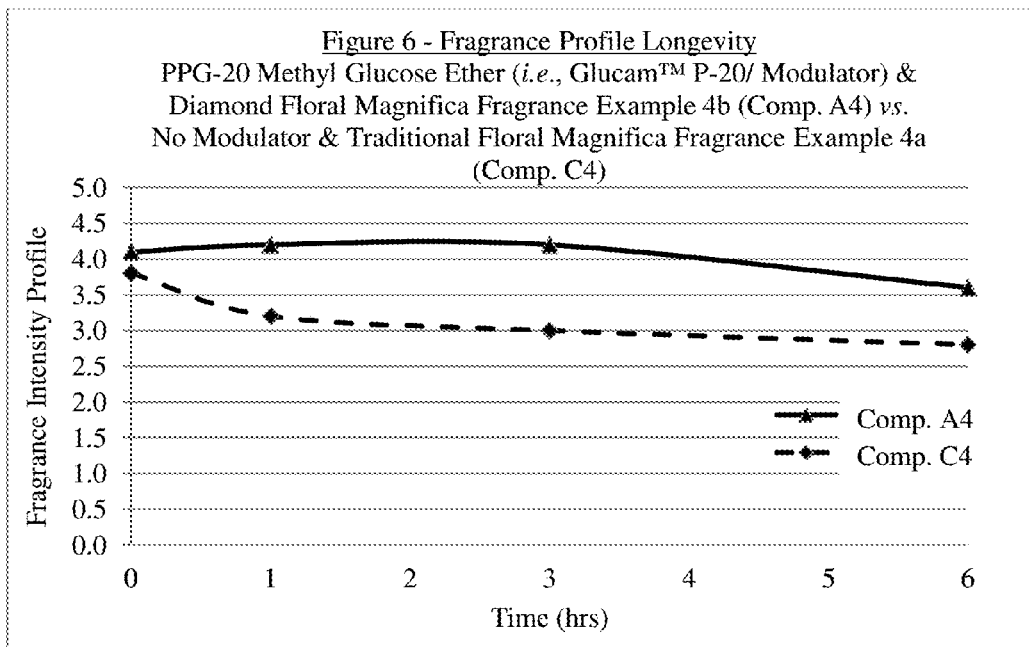
Figure 1b – New Fragrance Diamond Construction

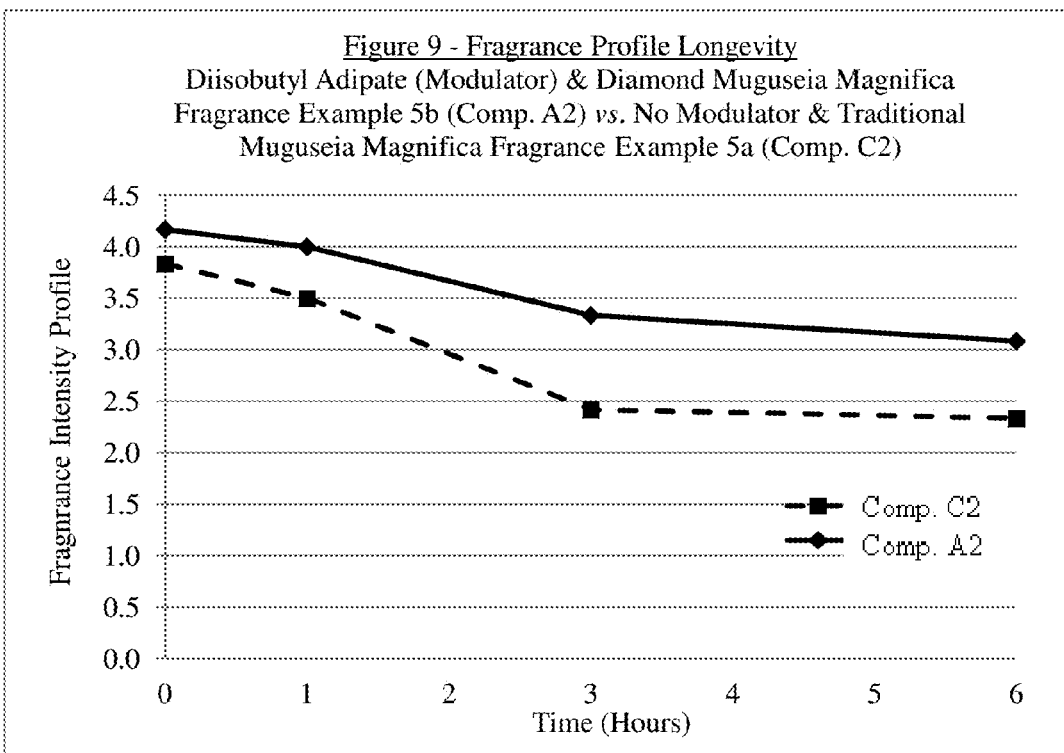
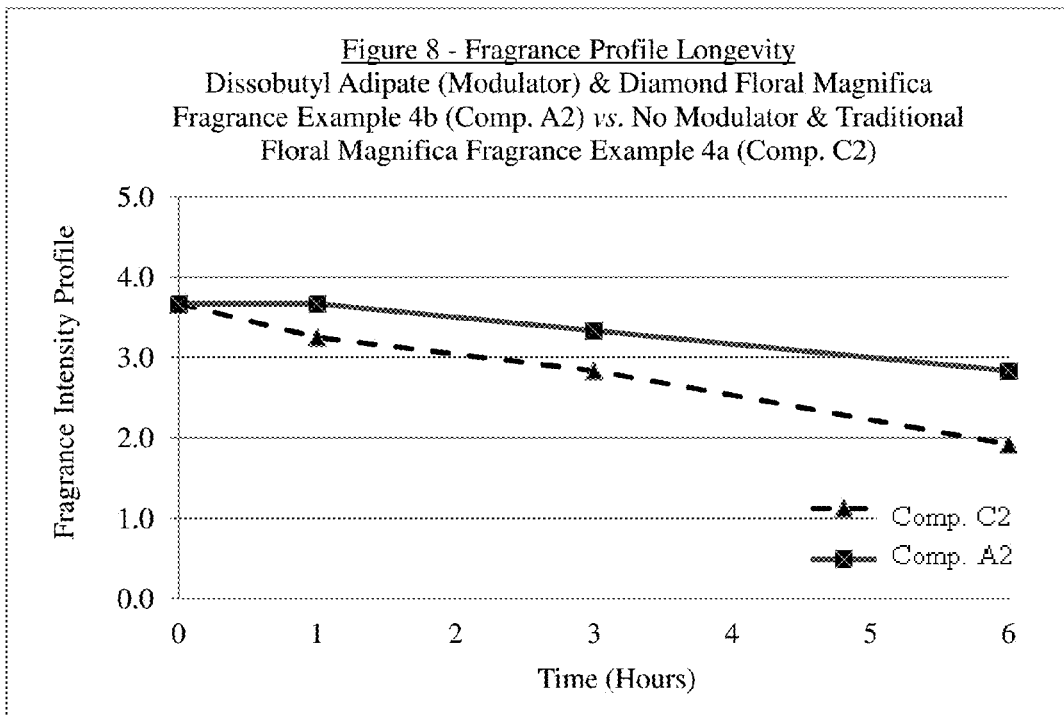


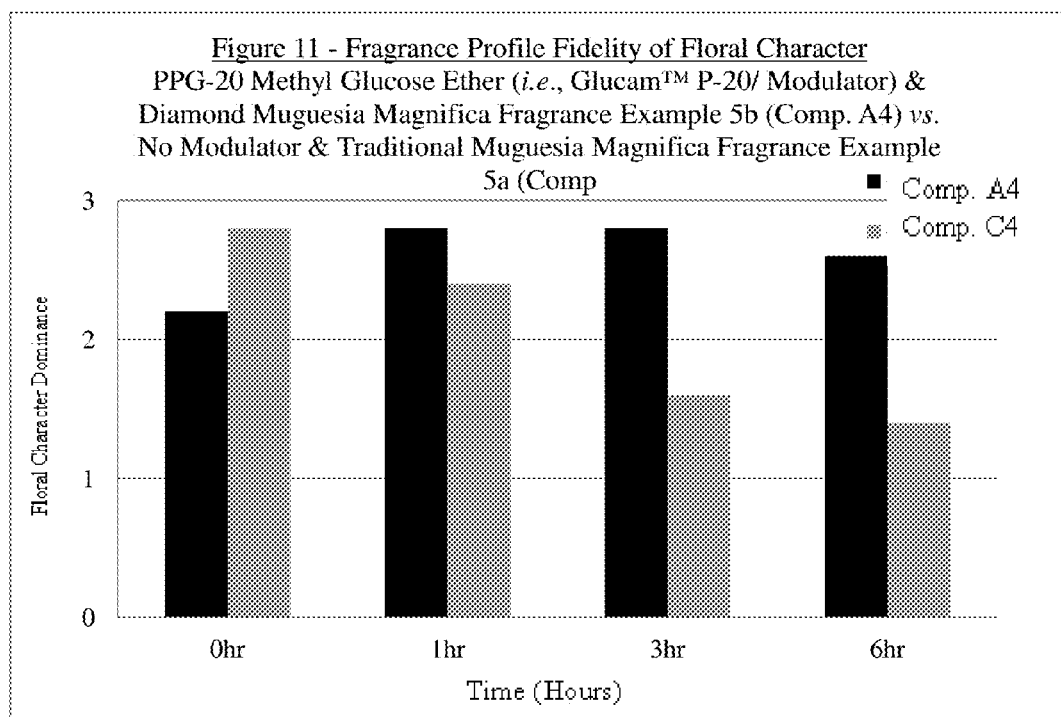
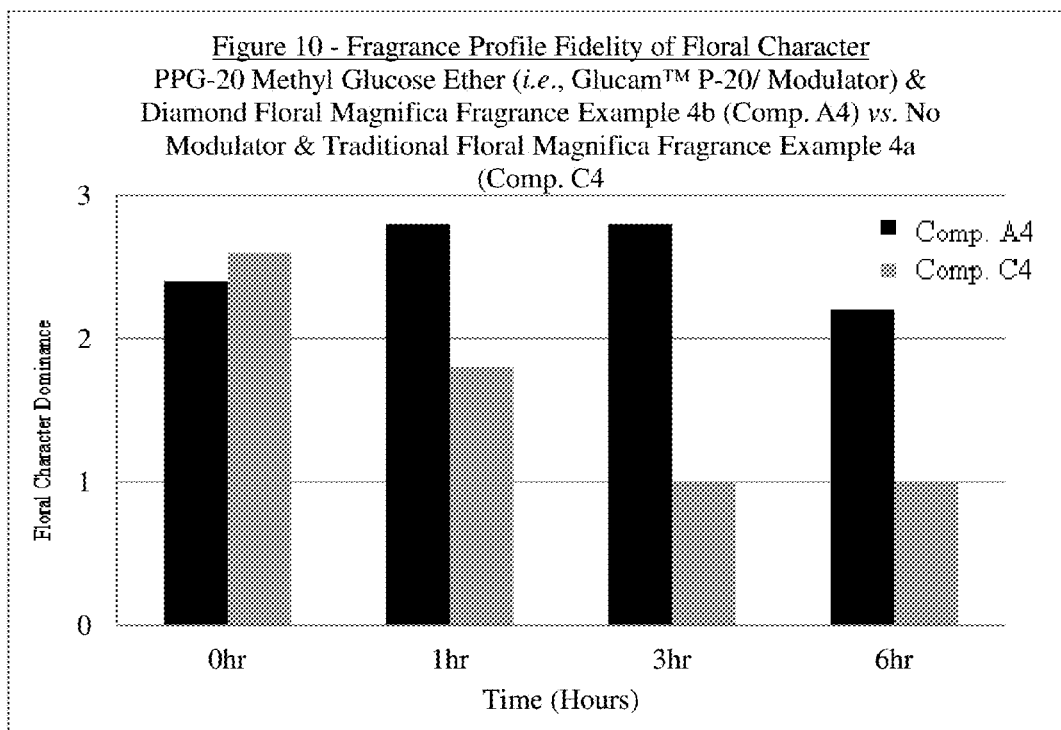
* wt% is relative to the total weight of the fragrance component.

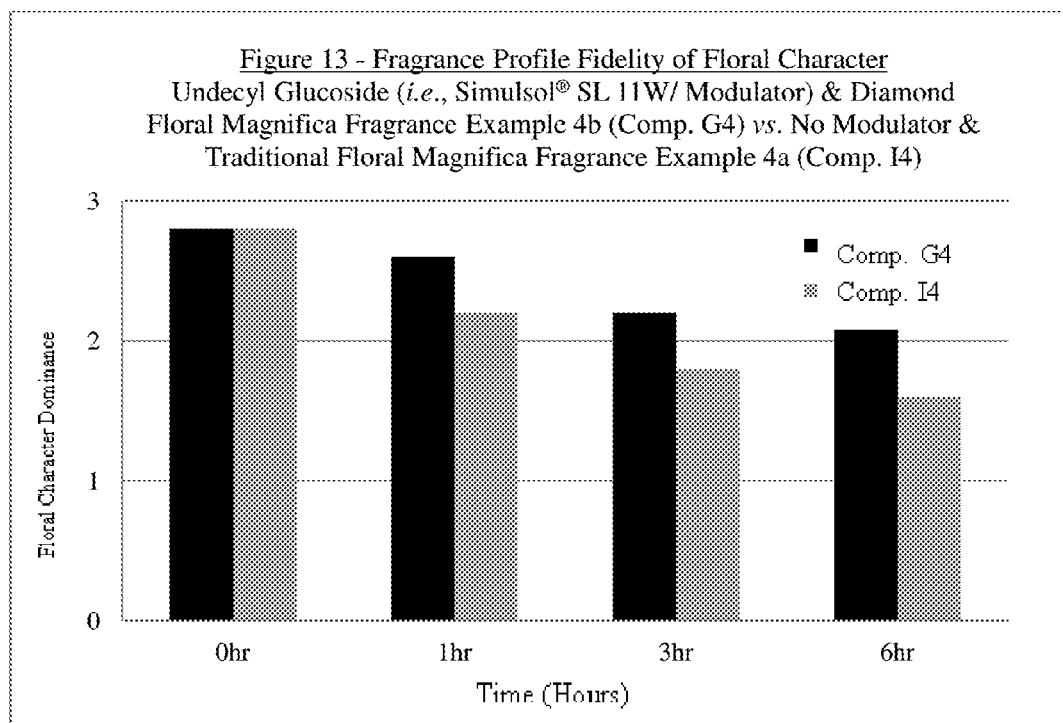
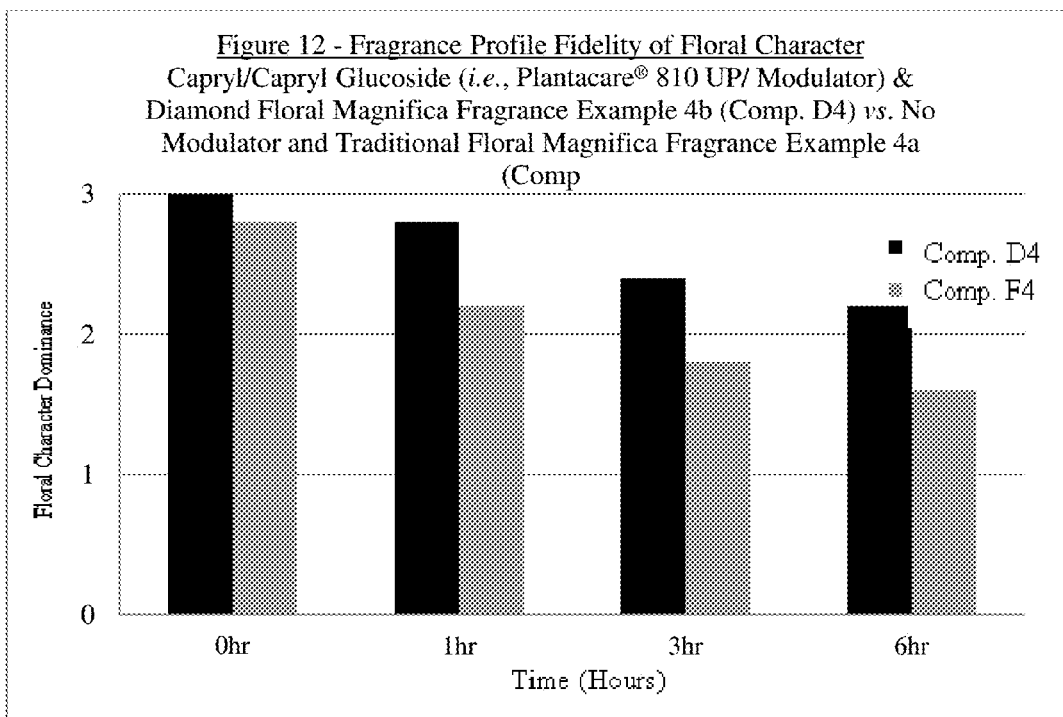


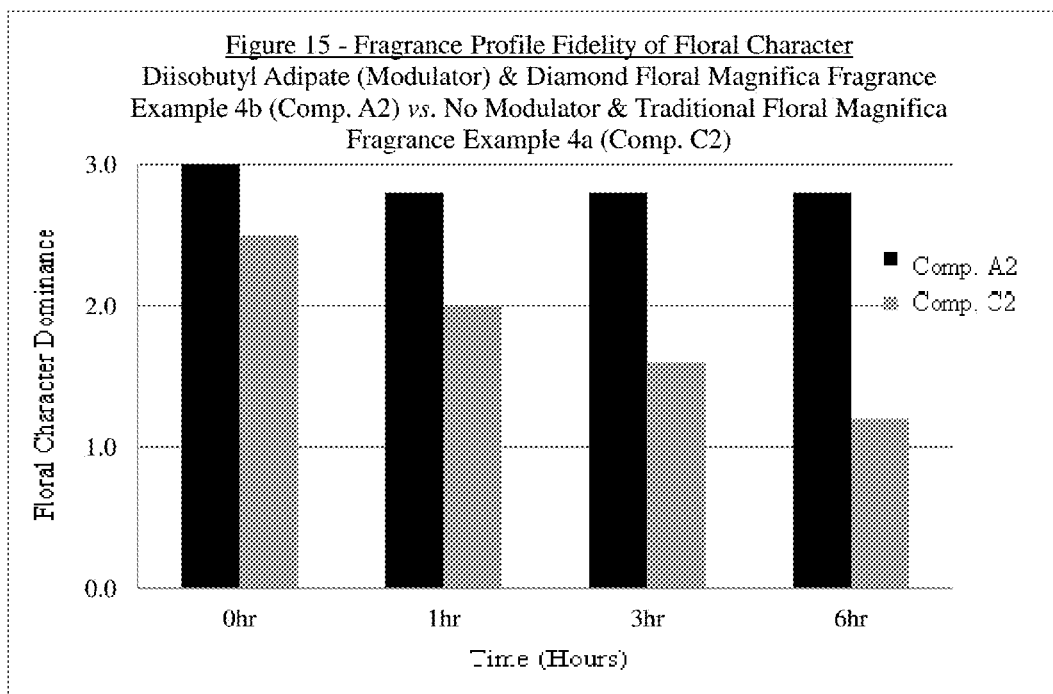
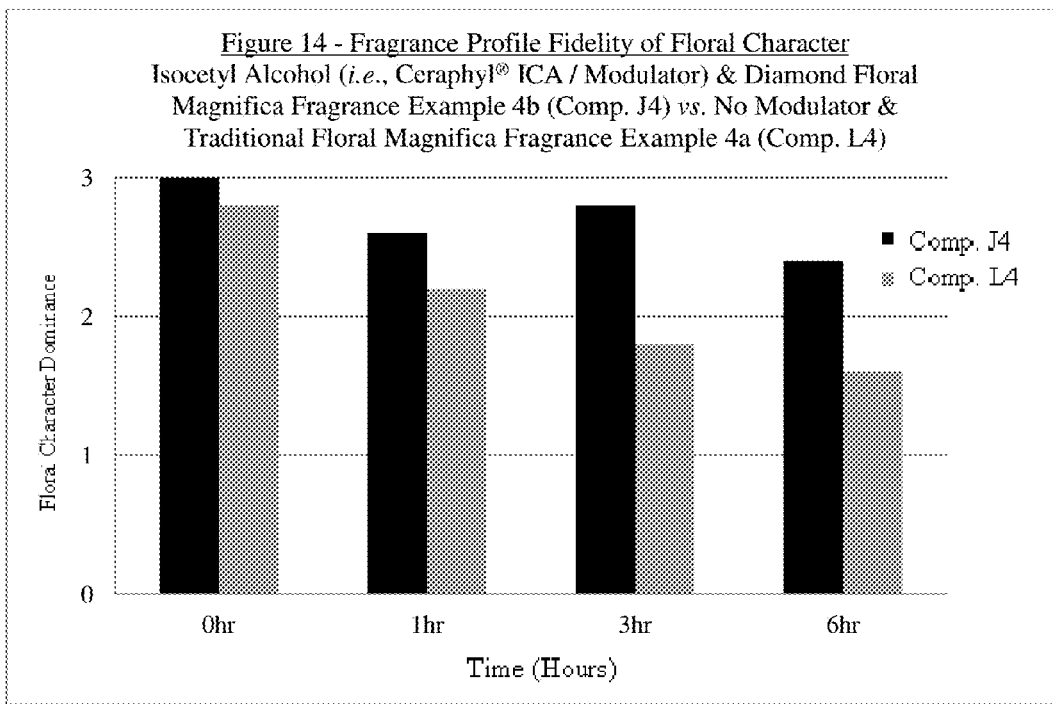


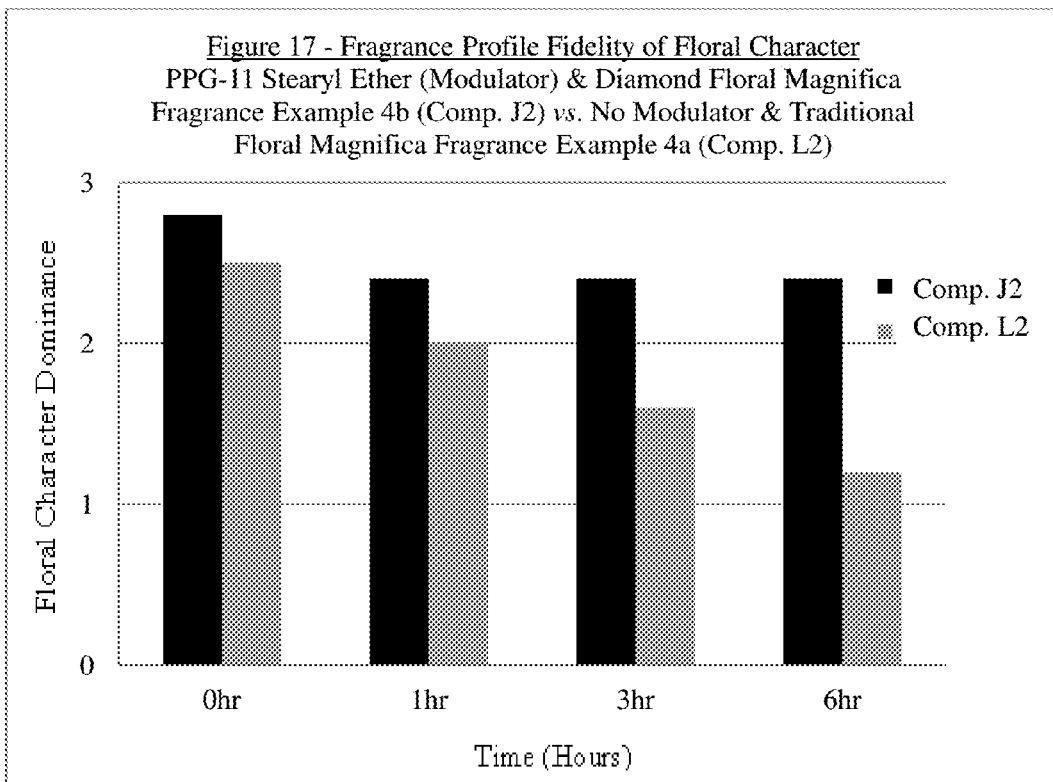
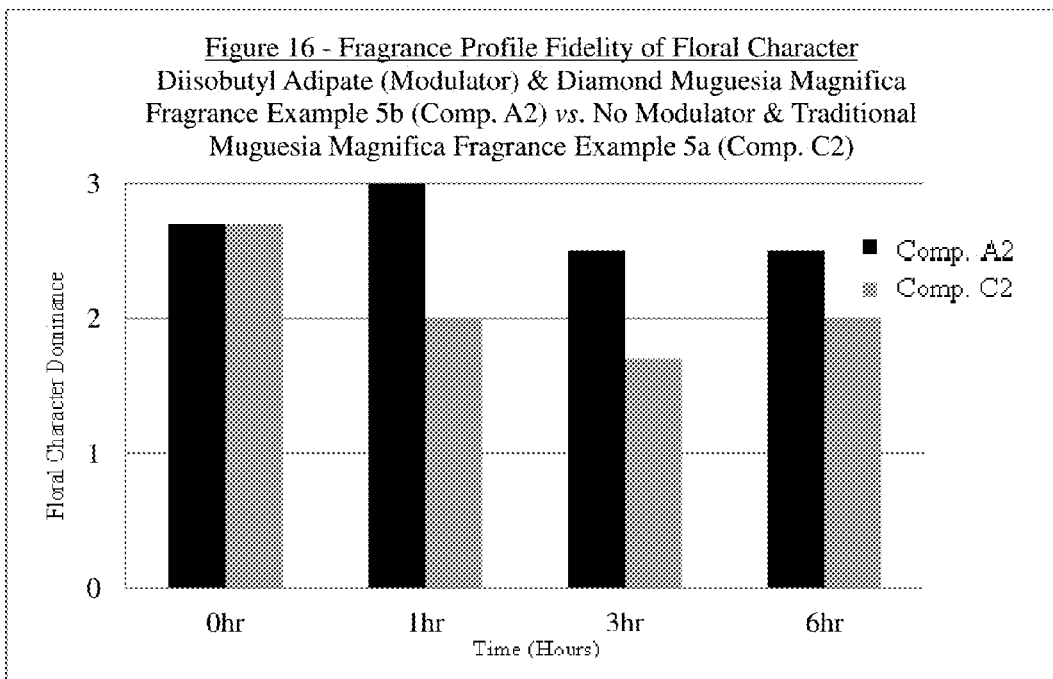


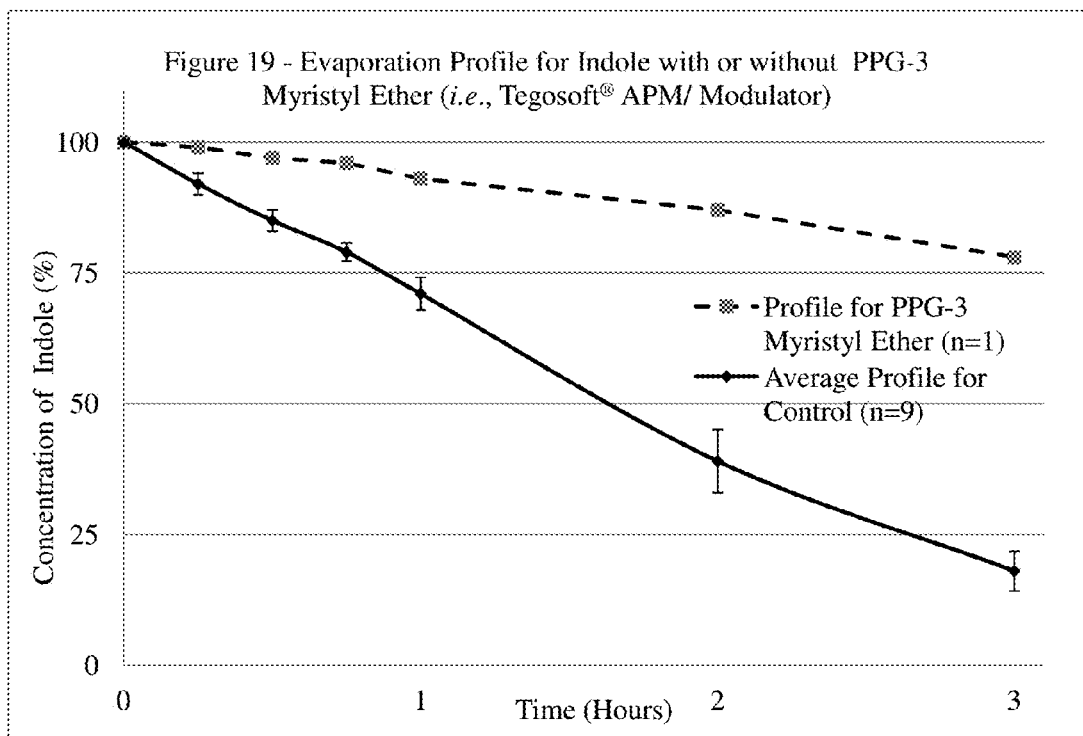
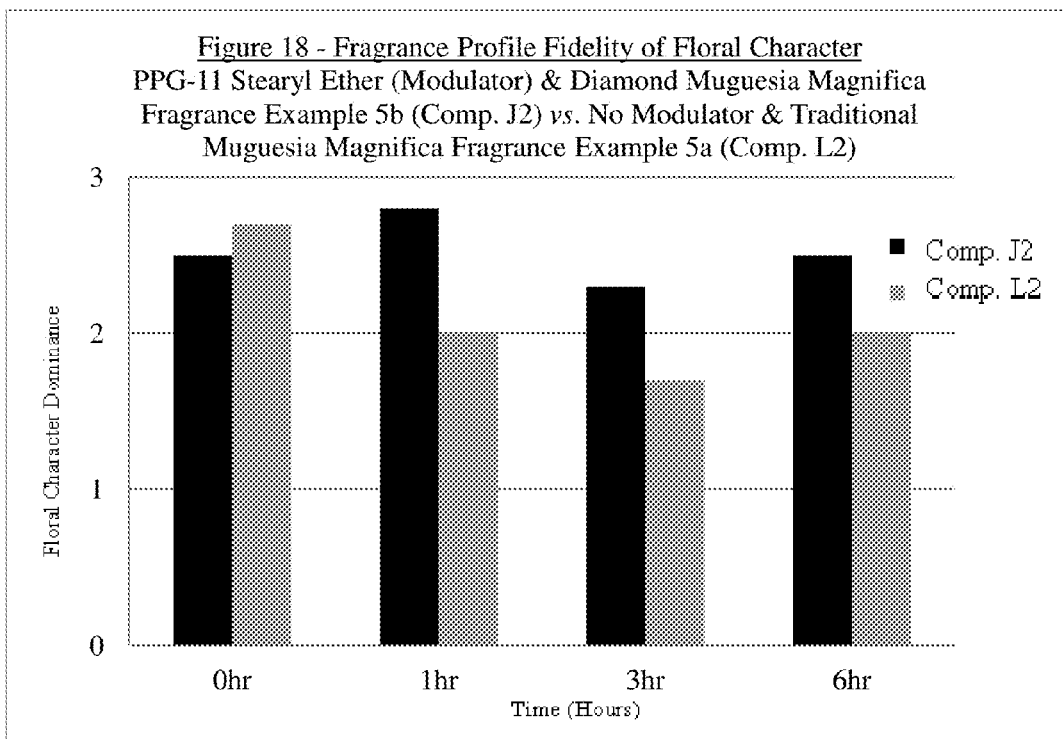












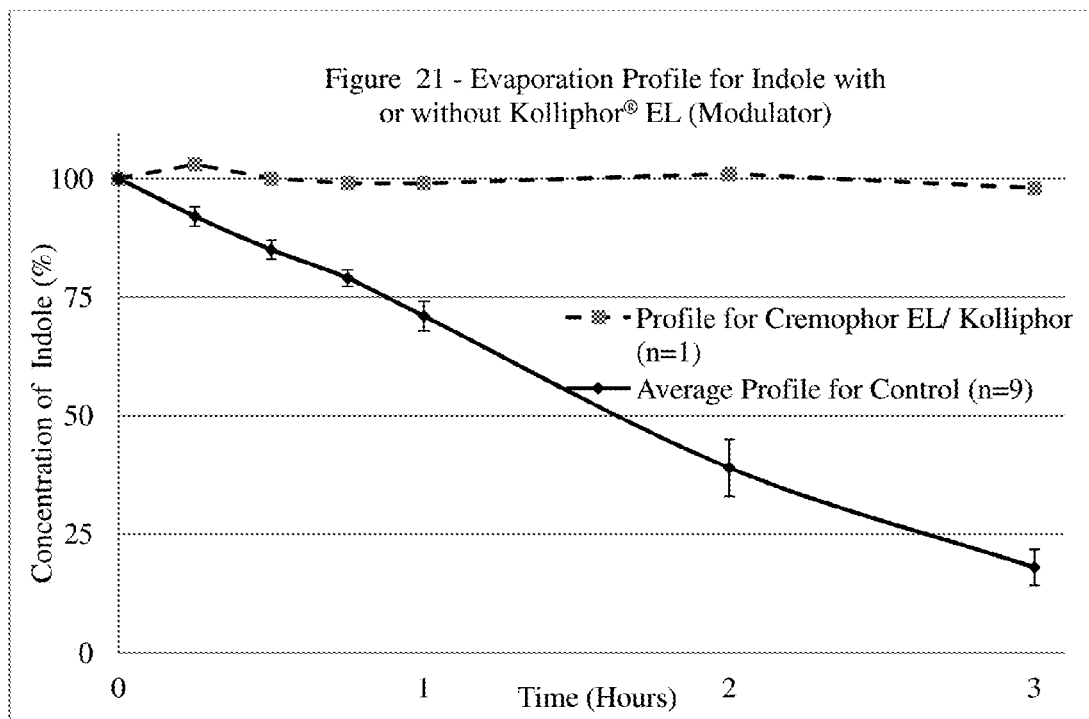
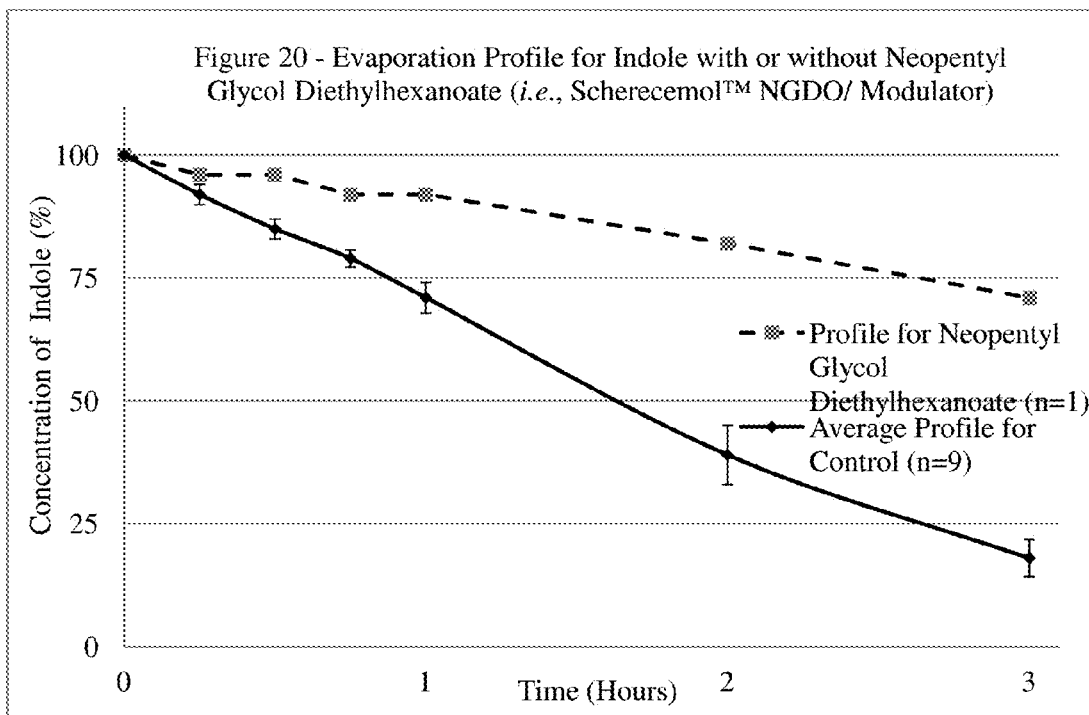


Figure 22(a)(i) – Headspace Chromatography – After 10 mins Evaporation
 No Modulator & Traditional Muguesia Magnifica Fragrance Example 5a (Comp. L2)

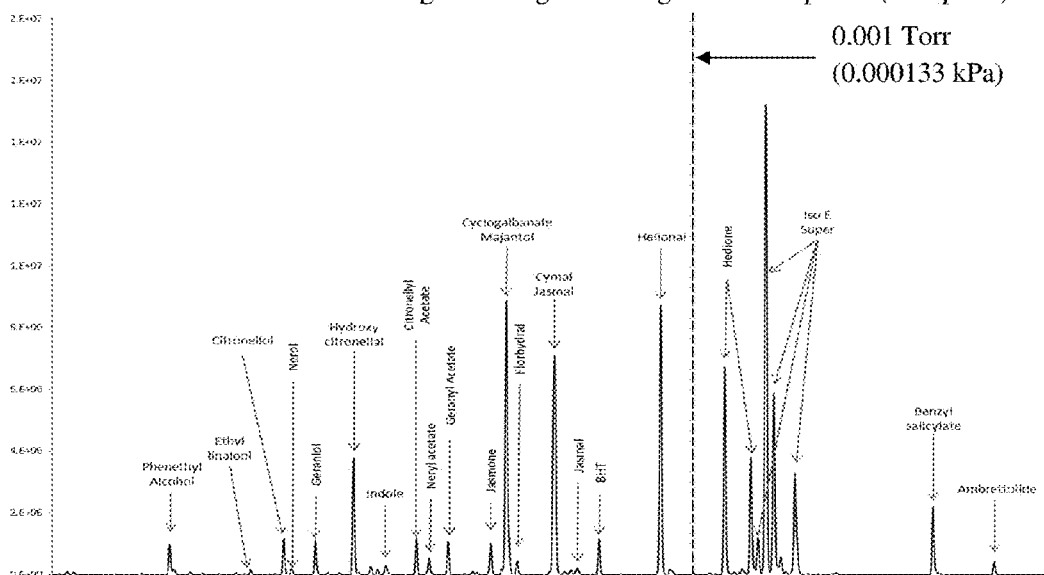


Figure 22(a)(ii) – Headspace Chromatography – After 60 mins Evaporation
 No Modulator & Traditional Muguesia Magnifica Fragrance Example 5a (Comp. L2)

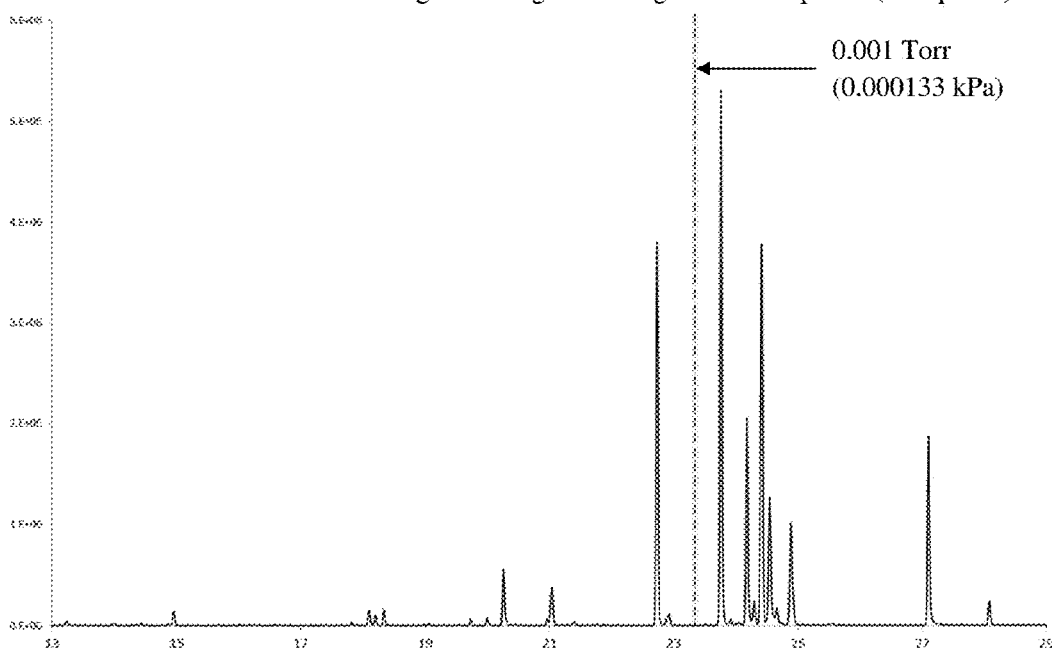


Figure 22(b)(i) – Headspace Chromatography – After 10 mins Evaporation
 PPG-11 Stearyl Ether (Modulator) & Diamond Muguesia Magnifica Fragrance Example 5b
 (Comp. J2)

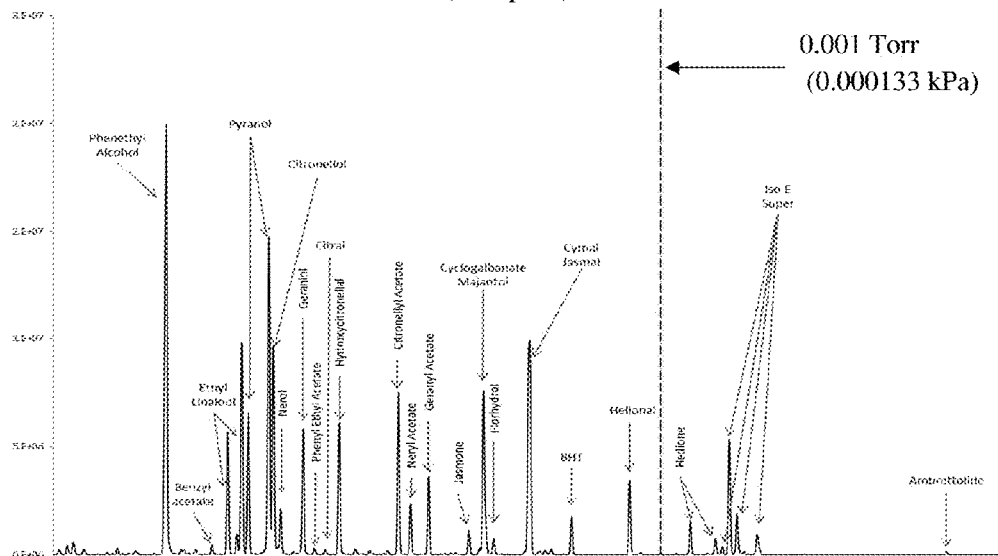


Figure 22(b)(ii) – Headspace Chromatography – After 60 mins Evaporation
 PPG-11 Stearyl Ether (Modulator) & Diamond Muguesia Magnifica Fragrance Example 5b
 (Comp. J2)

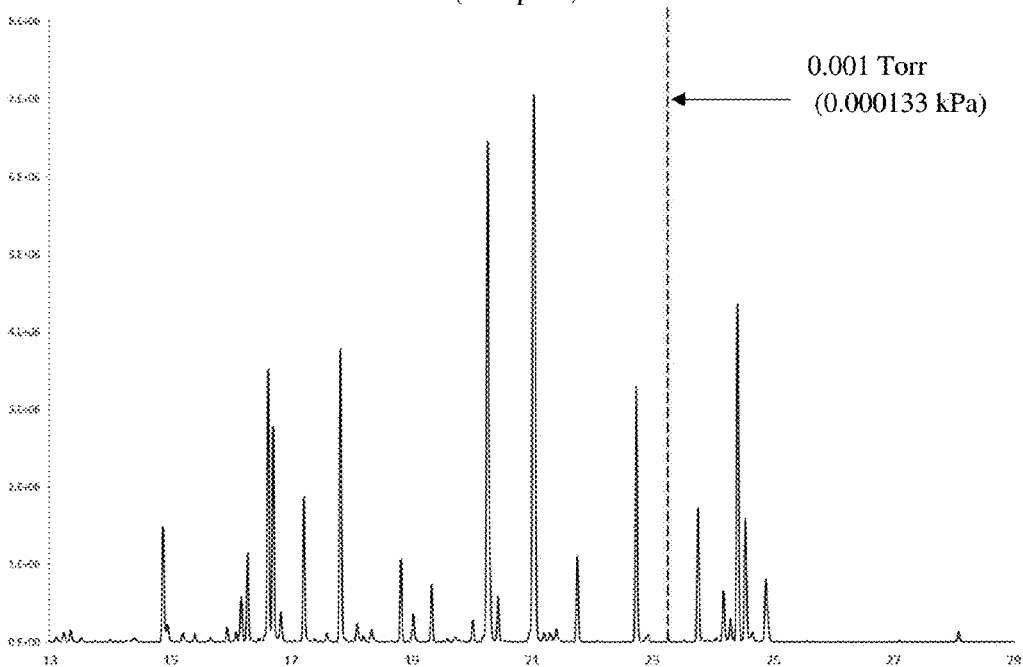


Figure 23(a)(i) – Headspace Chromatography – After 10 mins Evaporation
 No Modulator & Traditional Muguesia Magnifica Fragrance Example 5a (Comp. C4)

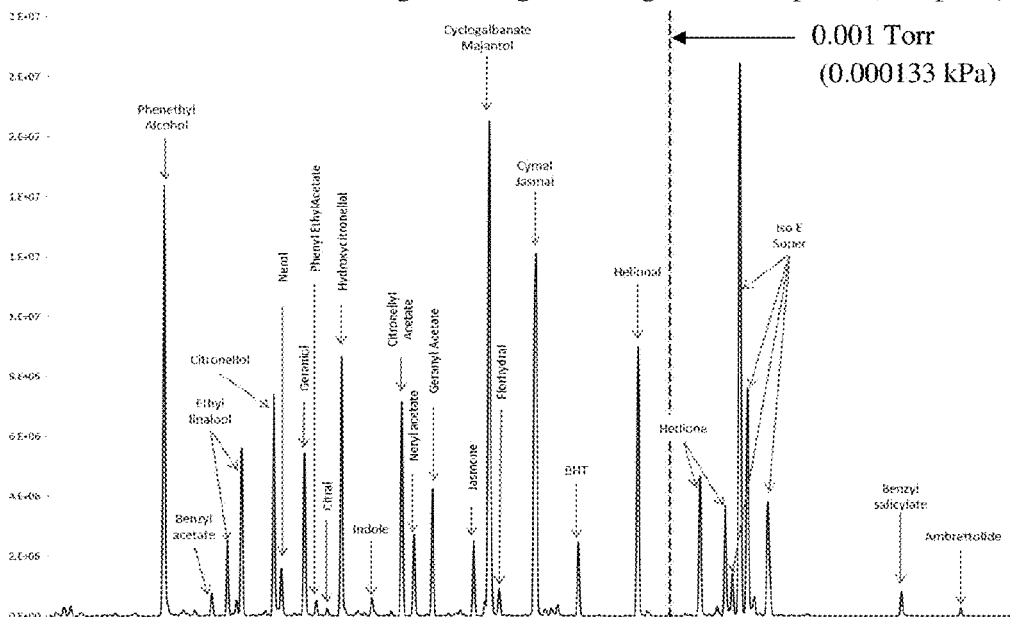


Figure 23(a)(i) – Headspace Chromatography – After 60 mins Evaporation
 No Modulator & Traditional Muguesia Magnifica Fragrance Example 5a (Comp. C4)

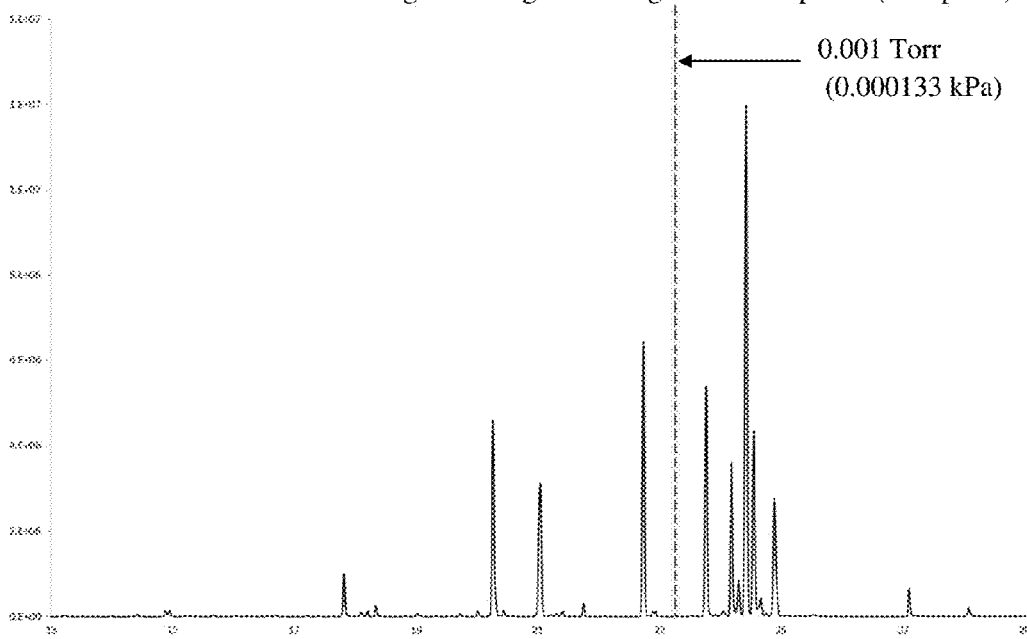


Figure 23(b)(i) – Headspace Chromatography – After 10 mins Evaporation
 PPG-20 Methyl Glucose Ether (i.e., GLUCAM™ P-20/ Modulator) & Diamond Muguesia
 Magnifica Fragrance Example 5b (Comp. A4)

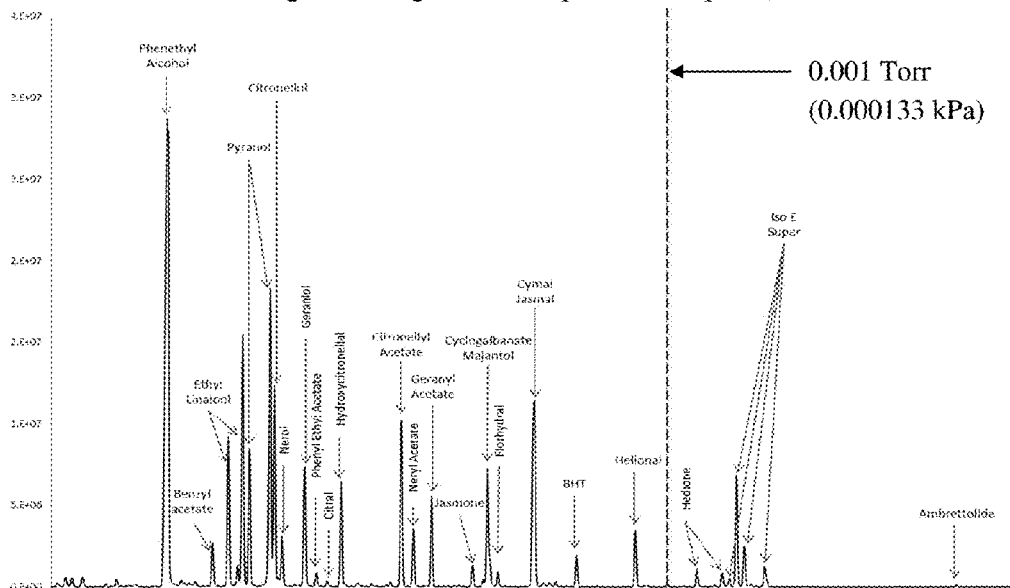


Figure 23(b)(ii) – Headspace Chromatography – After 60 mins Evaporation
 PPG-20 Methyl Glucose Ether (i.e., GLUCAM™ P-20/ Modulator) & Diamond Muguesia
 Magnifica Fragrance Example 5b (Comp. A4)

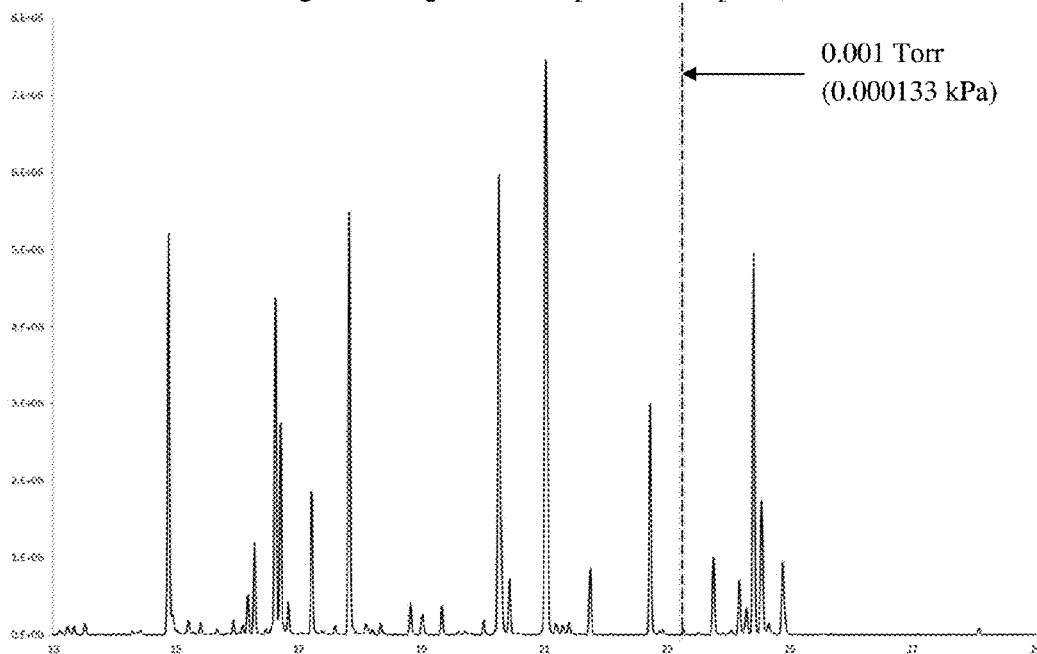


Figure 24(a)(i) – Headspace Chromatography – After 10 mins Evaporation
 No Modulator & Traditional Floral Magnifica Fragrance Example 4a (Comp. L4)

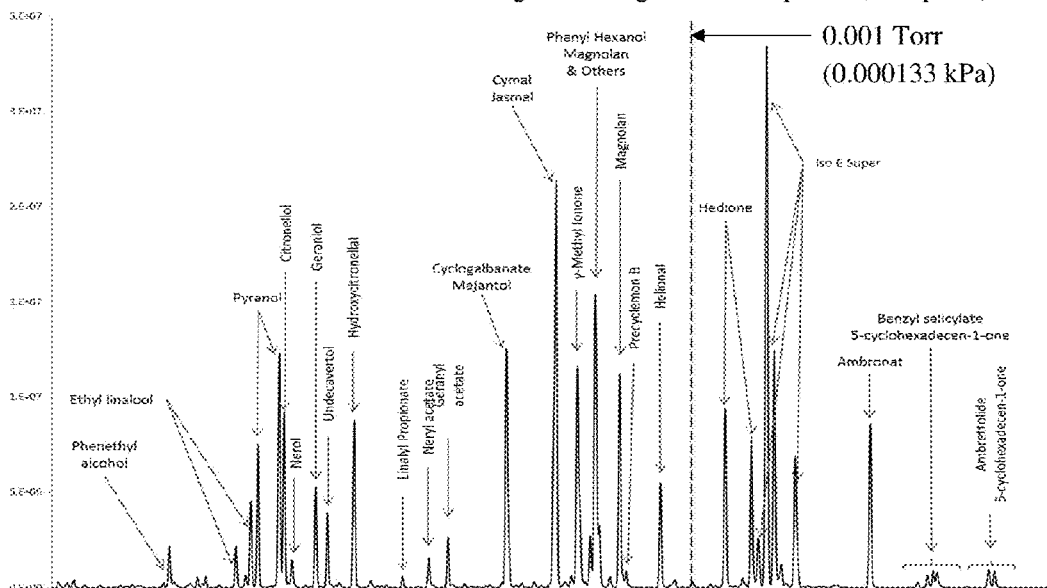


Figure 24(a)(ii) – Headspace Chromatography – After 60 mins Evaporation
 No Modulator & Traditional Floral Magnifica Fragrance Example 4a (Comp. L4)

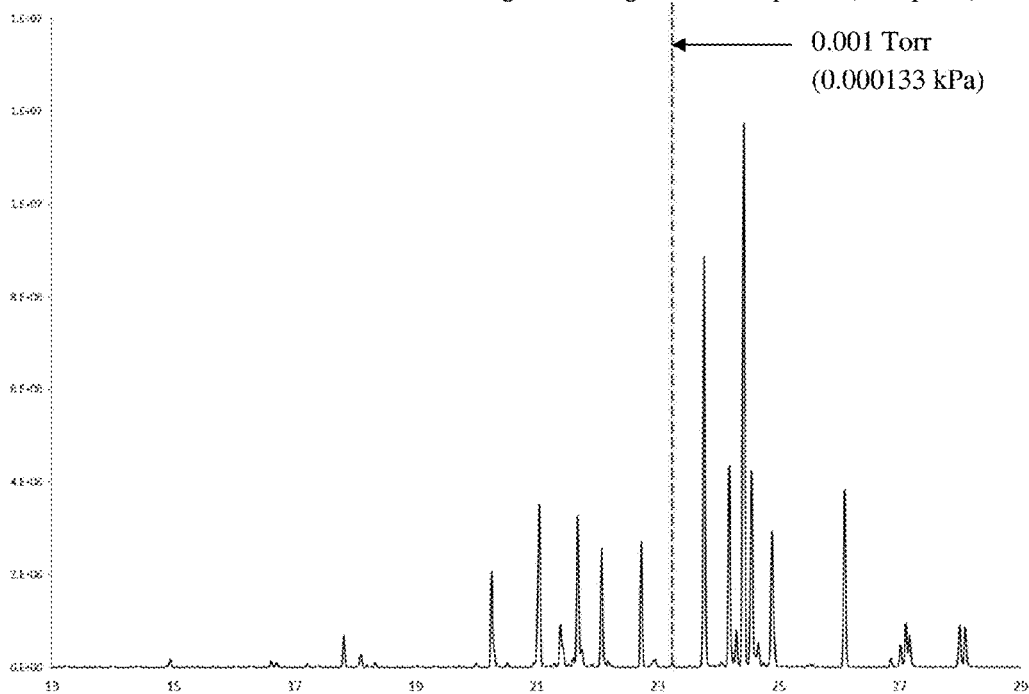


Figure 24(b)(i) – Headspace Chromatography – After 10 mins Evaporation
 Isocetyl Alcohol (i.e., Ceraphyl[®] ICA/ Modulator) & Diamond Floral Magnifica Fragrance
 Example 4b (Comp. J4)

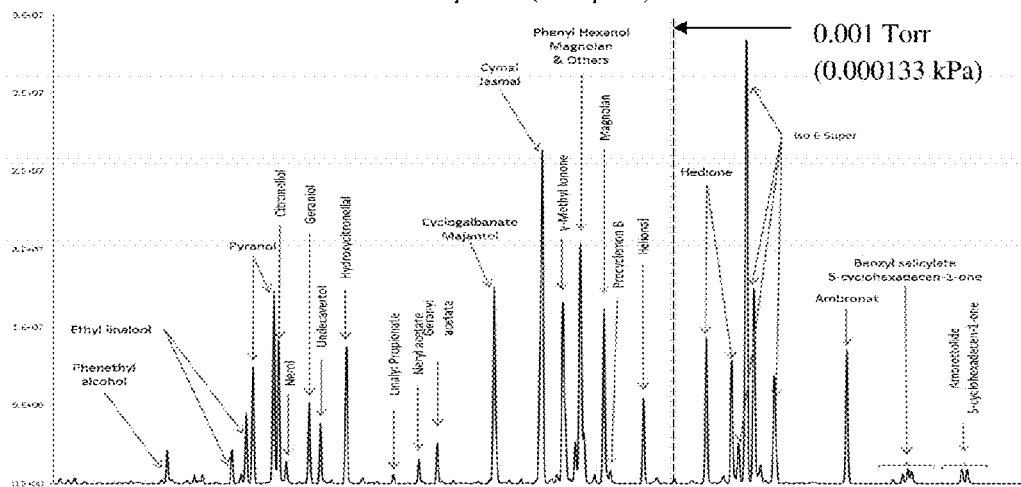


Figure 24(b)(ii) – Headspace Chromatography – After 60 mins Evaporation
 Isocetyl Alcohol (i.e., Ceraphyl[®] ICA/ Modulator) & Diamond Floral Magnifica Fragrance
 Example 4b (Comp. J4)

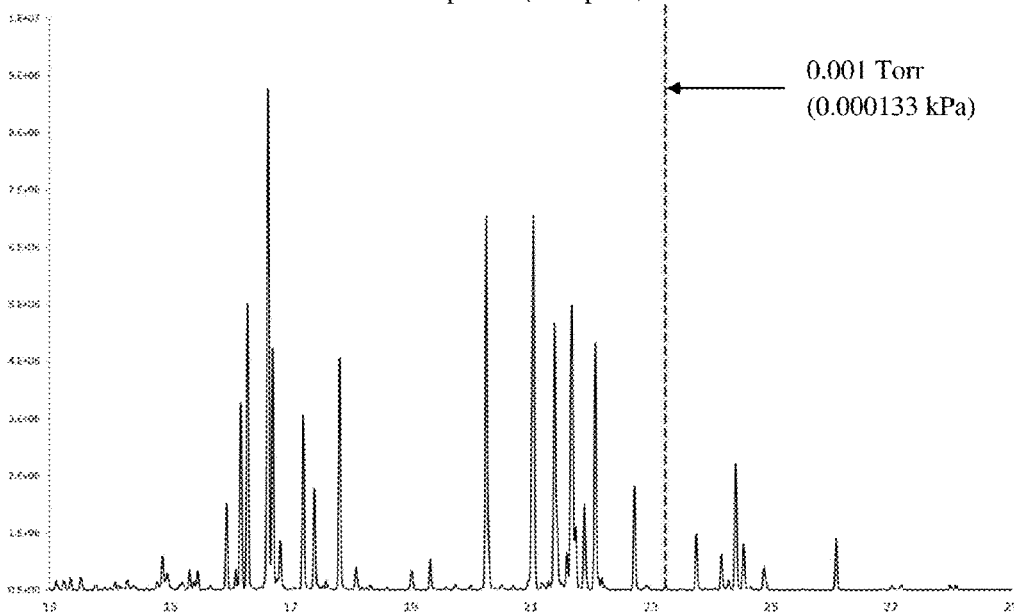


Figure 25(a)(i) – Headspace Chromatography – After 10 mins Evaporation
 No Modulator & Traditional Muguesia Magnifica Fragrance Example 5a (Comp. I4)

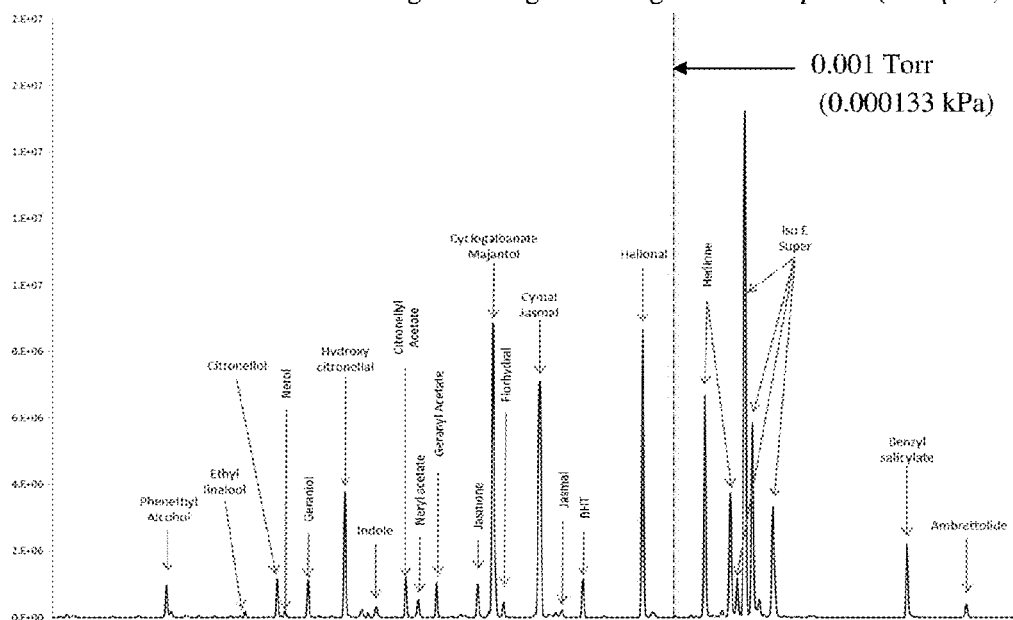


Figure 25(a)(ii) – Headspace Chromatography – After 60 mins Evaporation
 No Modulator & Traditional Muguesia Magnifica Fragrance Example 5a (Comp. I4)

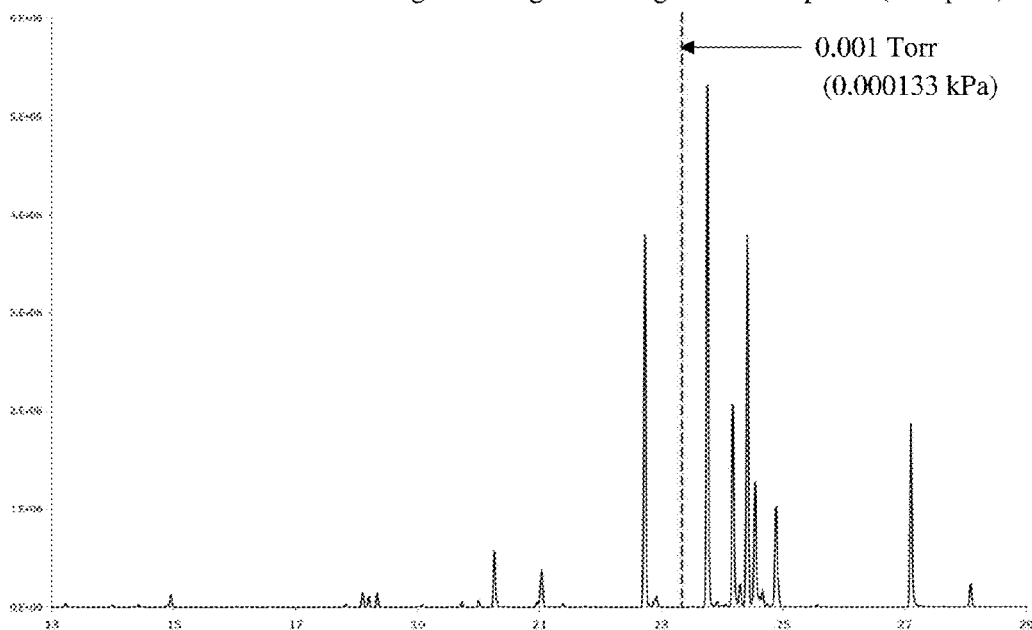


Figure 25(b)(i) – Headspace Chromatography – After 10 mins Evaporation
 Undecyl Glucoside (i.e., Simulsol® SL 11W/ Modulator) & Diamond Muguesia Magnifica
 Fragrance Example 5b (Comp. G4)

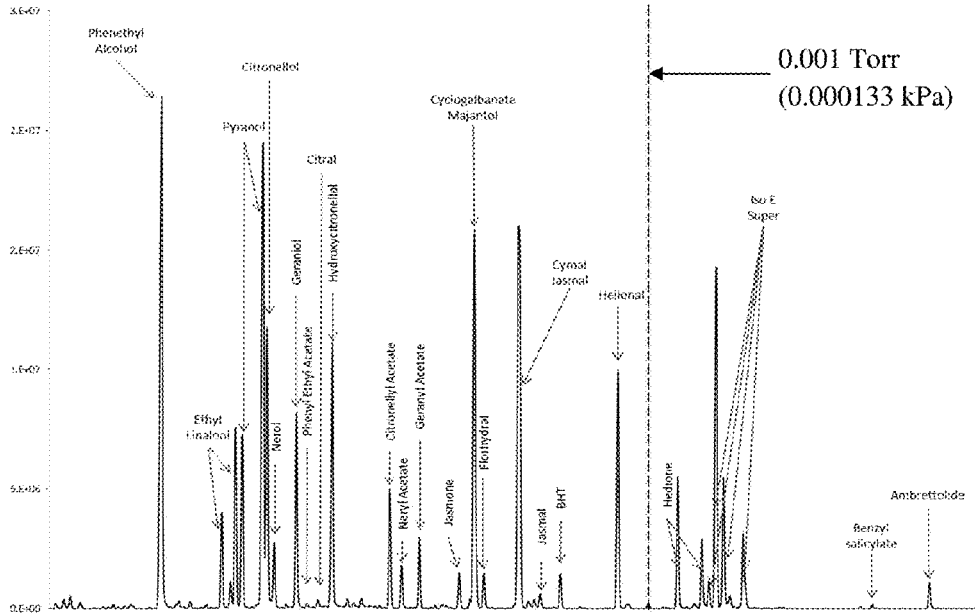
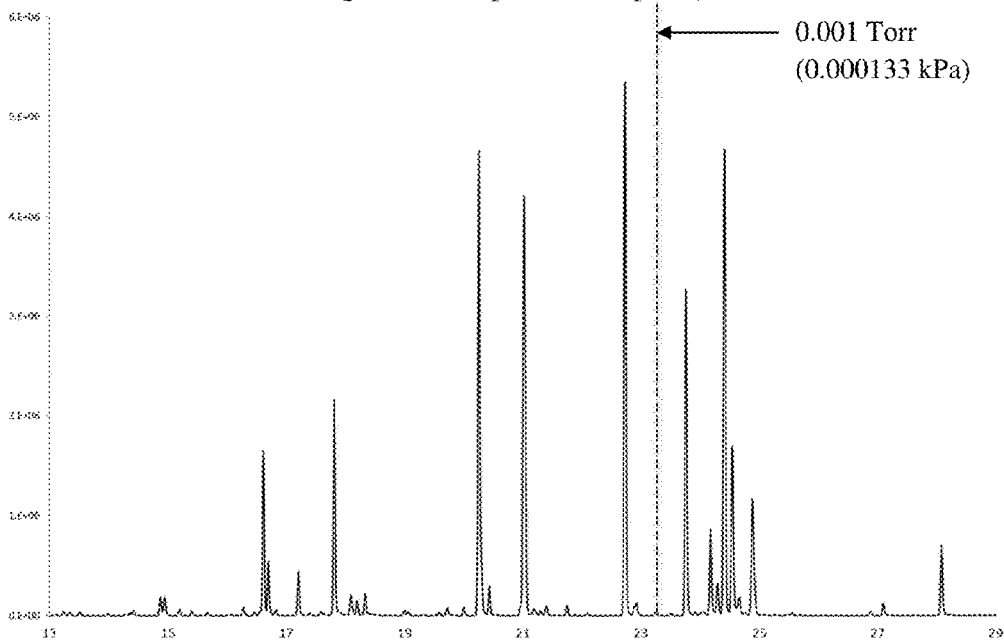


Figure 25(b)(ii) – Headspace Chromatography – After 60 mins Evaporation
 Undecyl Glucoside (i.e., Simulsol® SL 11W/ Modulator) & Diamond Muguesia Magnifica
 Fragrance Example 5b (Comp. G4)



FRAGRANCE COMPOSITIONS AND USES THEREOF

FIELD OF THE INVENTION

[0001] The present invention relates to the field of perfumery. In particular, it provides compositions comprising fragrance materials in a diamond construction and at least one substantially non-odorous fragrance modulator for improving or enhancing the fidelity and/or longevity of the fragrance profile. The invention also relates to methods of making and using said compositions.

BACKGROUND OF THE INVENTION

[0002] Conventional perfuming compositions have a fragrance profile characterized by the classical fragrance pyramid three-tiered structure, which contains a higher amount of the base notes, a medium amount of the heart notes, and a lower amount of the top notes (see FIG. 1a). The conventional pyramid structure is used because higher levels of the base notes are relied upon to provide the intensity of the overall fragrance profile over time and replace the heart notes when those are declining. Simply increasing the levels of heart and top notes does not provide the required longevity because of their fast evaporation.

[0003] Perfumers typically classify fragrance materials as a base, heart or top note according to their specific characters. For instance, the fragrance material "Hedione®" (or also known as "methyl dihydrojasmonate") is commonly classified as a heart note based on its perceived floral character. However, due to the somewhat subjective nature of characters, there has been no universal convention for objectively classifying fragrance materials. As a result of the subjective classification approach, fragrance formulation has been inconsistent. For example, two compositions having the exact same classification of fragrance materials constructed according to the classical fragrance pyramid structure could have two different, possibly very different, fragrance profiles.

[0004] With the classical fragrance pyramid structure, "base notes" make up from greater than 30 wt %, typically greater than 40 wt % or typically greater than 50 wt %, relative to the total weight of the perfume formulation. Base notes are characterized by providing animalic, woody, sweet, amber or musky characters, and not being very volatile. The "heart or middle notes", make up from about 0.1 wt % to about 60 wt % relative to the total weight of the perfume formulation and have an intermediate volatility. Heart notes are associated with desirable characters such as floral characters (e.g., jasmin, rose), fruity, marine, aromatic or spicy characters. The "top or head notes" provide citrusy, green, light, or fresh characters, and make up from about 0.1 wt % to about 40 wt % relative to the total weight of the perfume formulation. Top notes tend to evaporate quickly due to their high volatility.

[0005] There are at least one of several drawbacks to the above described classical formulation approach. Firstly, classification of fragrance materials by their characters is subjective and therefore results in inconsistency in the fragrance profile under classical fragrance pyramid construction rules. Secondly, the perceived intensity of the fragrance profile of the conventional perfume compositions, particularly those characters attributable to the more volatile fragrance materials, decreases rapidly over time due to their

quick evaporation. Accordingly, conventional perfume compositions will typically change their overall fragrance profile over time. This is a problem because it is desirable to maintain "fragrance profile fidelity" over time. In other words, it is desirable to maintain the same or substantively similar fragrance profile for a commercial fragrance over time, particularly over long periods of time (at least 4 hrs, 6 hrs, or even 8 hours after application). Thirdly, with the classical fragrance pyramid construction, the possible types of fragrance profiles have been somewhat limited. The consequence of using base notes at high levels is that many fragrance dry-downs appear repetitive, boring, non-memorable and un-interesting to consumers. However, if base notes are reduced or excluded then the fragrance intensity weakens over time and does not last for a sufficient duration. Lastly, it is generally accepted that some consumers desire prolonged intensity of select characters, particularly the floral, spicy or aromatic characters derived from the heart notes. Unfortunately, the consequence of using high levels of base notes is that they may impart particularly undesirable characters, such as for example, musky, woody, ambery, warm and sweet, which overpower and dominate the more desirable fragrance characters over time, particular over long periods of time. Thus, the unique challenge remains of selectively extending the more desirable characters attributable from the heart and/or top notes, particularly the heart notes, and even more particularly extending these desirable characters over long periods of time.

[0006] Previous attempts to overcome these problems have been through the use of various "fixatives" or "modulators" to retard the evaporation of the more volatile fragrance ingredients present in fragrance compositions. For instance, U.S. Pat. No. 6,737,396B2 (Firmenich) describes a perfume composition formed by mixing 2-30%, relative to the weight of the composition, of a fixative, (1-ethoxyethoxy)cyclododecane, to fix or exalt the musky or aromatic-type notes. U.S. Pat. No. 6,440,400B1 (Takasago Perfumery) describes a composition using trimethylcyclohexane derivatives as perfuming-holding agents and melanin-formation inhibitors. U.S. Pat. No. 4,313,855 (Dragoco) describes the use in cosmetic compositions of 1-(2,6,6-trimethylcyclohexyl)-hexane-3-ol as an odourless fixative for increasing the perfume's intensity. U.S. Pat. No. 6,147,049 (Givaudan) discloses a perfume fixative derived from tera-hydronaphthalene for use in a wide range of fragrance compositions. WO85/04803 (Diagnostica) describes the use of hyaluronic acid/hyaluronate as fixatives (via molecular encapsulation) in fragrance products to improve persistent of the fragrance. JP Patent No. 61-083114 (Kanebo) describes ether derivatives as aroma-preserving agent for fine perfume composition. JP Patent No. 61-063612 (Kanebo) discloses diethylene glycol ether derivatives as fragrance adjusting agent showing effects as a fixative and a solubilizer. JP Patent No. 62-084010 (Shiseido) describes hydroquinone glycoside as perfume fixatives applicable for all kinds of perfume and blended perfume. U.S. Pat. No. 7,196,052 (Takasago Int. Corp.) describes fragrance compositions containing glycerol ether derivatives as fixatives or fragrance note-improving agent. EP Patent Publication No. 616800A2 (Givaudan) discloses odourant compositions containing panethenol ethyl ether having improved prolonged diffusion of the perfume materials from the skin, without notably modifying the olfactive note of the product. U.S. Pat. No. 4,110,626 (Shiseido) describes the use of aliphatic dibasic

acid diester as “perfume controlling agent” for improved fixing effect on fragrance component. PCT Publication No. WO2014/155019 (LVMH) describes aliphatic ether derivatives to increase the stability of alcoholic fragrance composition and more particularly to preserve the original olfactive notes.

[0007] These attempts have advocated the use of such fixatives or modulators indiscriminately without regard to the fragrance profile. Further, these attempts do not teach how to objectively classify the fragrance materials as low, moderate or high volatile fragrance materials. Further, the use of fixatives or modulators in these attempts often shows effects on single fragrance material, which are often not observed in a fragrance composition of a mixture of fragrance materials where a number of such fragrance materials are competing with each other to interact with said fixatives or modulators. They do not teach how to formulate with fixatives or modulators in fragrance mixtures, which is not trivial. As a result, these attempts, while disclosing compositions that retain the perfume by way of fixatives or modulators, neither teach the fragrance diamond construction in compositions nor the particular type or levels of fragrance materials to include for delivering the benefits of improved fidelity to the perceived fragrance profile over time, or improved longevity of the fragrance profile, preferably the characters attributable from the moderate or high volatile fragrance materials, particularly the moderate volatile fragrance materials.

[0008] On the other hand, other attempts propose a selective approach aimed at the selection of specific fixatives or modulators and defined amounts of fragrance materials. For instance, U.S. Pat. No. 7,538,081 (Takasago Perfumery) approaches the problem of fixing a perfume and/or extending the perfume release from a fragrance composition. More particularly, said document describes the use of L-menthoxy ether derivatives as fixatives in fragrance compositions comprising at least one note selected from: floral, citrus, fruity, green, mint, herb and marine. U.S. Patent Publication No. 2011/0104089A1 (Symrise) describes certain compositions containing neopentyl glycol diisononanoate as a fixative for top note perfume oils by increasing their adherence to skin and hair. U.S. Patent Publication No. 2011/0091404 (Symrise) discloses the use of N-hexadecyl n-nonanoate and N-octadecyl n-nonanoate as fixatives of fragrance substances, particularly the readily volatile top notes, by lowering their vapor pressure to allow for a time-delayed release of the perfume oil components from a composition.

[0009] However, these attempts tend not to describe how to formulate with fixatives or modulators in complex mixtures of fragrance materials. For those references that do describe mixtures of fragrance materials, they have different fragrance design criteria and are directed to specific preferred fixatives or modulators.

SUMMARY OF THE INVENTION

[0010] The inventors have discovered new rules for objectively classifying fragrance materials according to their vapor pressures into low, moderate and high volatile fragrance materials for formulating into fragrance mixtures, preferably complex mixtures having a diamond construction.

[0011] In a first aspect, the present invention is directed to a composition comprising a diamond construction fragrance formulation (see FIG. 1b) and at least one substantially

non-odorous fragrance modulator for delivering enhanced intensity of the perceived fragrance profile over time, preferably the components attributable from the moderate and high volatile fragrance materials. In particular, the present invention is directed to a composition comprising: (i) a fragrance component present in an amount of from about 0.04 wt % to about 30 wt %, relative to the total weight of the composition; (ii) at least one substantially non-odorous fragrance modulator present in the amount of from about 0.1 wt % to about 20 wt %, relative to the total weight of the composition; (iii) a volatile solvent present in an amount of from about 50 wt % to about 80 wt %, relative to the total weight of the composition; and (iv) optionally water. The fragrance component comprises: (a) at least one low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C. present in an amount of from about 10 wt % to about 30 wt %, relative to the total weight of the fragrance component; (b) at least one moderate volatile fragrance material having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C. present in an amount of from about 40 wt % to about 80 wt %, relative to the total weight of the fragrance component; and (c) at least one high volatile fragrance material having a vapor pressure greater than 0.1 Torr (0.0133 kPa) at 25° C. present in an amount of from about 1 wt % to about 30 wt %, relative to the total weight of the fragrance component.

[0012] In another aspect, the present invention is directed to a method for imparting, intensifying, or modifying an odour on human skin or human hair, comprising applying to human skin and/or human hair with the composition of the present invention.

[0013] Thus, it is an advantage of the present invention to provide new rules for objectively classifying fragrance materials according to their volatility using their vapor pressures defined at suitable temperature, instead of their characters. The new rules operate irrespective of perfumers performing the classification. In particular, the new rules classify the fragrance materials into low, moderate or high volatile fragrance materials for formulating into fragrance mixtures, particularly ones having a diamond construction. It is a further advantage of the present invention to provide compositions having improved fidelity to the perceived fragrance profile over time. It is yet a further advantage to provide a composition, wherein the character attributable to moderate and high volatile fragrance materials, particularly the moderate volatile fragrance materials, remains significantly consistent from its initial impression to the end. It is yet a further advantage to provide compositions having improved longevity of the perceived fragrance profile, preferably the characters attributable from the moderate or high volatile fragrance materials, particularly the moderate volatile fragrance material. It is yet a further advantage to provide compositions having stable quality of end product (e.g., fragrance profile, visual appearance) substantially comparable to the classical fragrance pyramid three-tiered structure, preferably even after three months storage at 40° C. It is yet a further advantage to be able to create new to the world fragrance profiles wherein one, or several, well-recognized moderate volatile fragrance material characters, are maintained over time, preferably for long periods of time (e.g., greater than 4, 6, or even 8 hours).

[0014] These and other features of the present invention will become apparent to one skilled in the art upon review

of the following detailed description when taken in conjunction with the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] While the specification concludes with claims particularly pointing out and distinctly claiming the invention, it is believed that the invention will be better understood from the following description of the accompanying figures wherein:

[0016] FIG. 1a is a diagram of the classical fragrance pyramid structure of the prior art.

[0017] FIG. 1b is a diagram of a fragrance diamond construction according to an embodiment of the present invention.

[0018] FIG. 2 provides the panel test results of perceived fragrance profile, particularly improved fragrance profile longevity of Composition A9 comprising Indocolore fragrance material and Expert Gel® 56 substantially non-odorous fragrance modulator as compared to Composition B9, a control absent of a substantially non-odorous fragrance modulator (Expert Gel® 56), and as a function of time elapsed since application of the composition.

[0019] FIG. 3 provides the panel test results of perceived fragrance profile, particularly improved fragrance profile longevity of Composition C9 comprising Dimethyl Benzyl Carbinol fragrance material and Kolliphor® EL substantially non-odorous fragrance modulator as compared to Composition D9, a control absent of a substantially non-odorous fragrance modulator (Kolliphor® EL), and as a function of time elapsed since application of the composition.

[0020] FIG. 4 provides the panel test results of perceived fragrance profile, particularly improved fragrance profile longevity of Composition E9 comprising Eugenol fragrance material and Kolliphor® EL substantially non-odorous fragrance modulator as compared to Composition F9, a control absent of a substantially non-odorous fragrance modulator (Kolliphor® EL), and as a function of time elapsed since application of the composition.

[0021] FIG. 5 provides the panel test results of perceived fragrance profile, particularly improved fragrance profile longevity of Composition G9 comprising Phenethyl alcohol (PEA) fragrance material and Kolliphor® EL substantially non-odorous fragrance modulator as compared to Composition H9, a control absent of a substantially non-odorous fragrance modulator (Kolliphor® EL), and as a function of time elapsed since application of the composition.

[0022] FIG. 6 provides the panel test results of the fragrance profile longevity, particularly intensity of the character attributable to the volatile fragrance materials, of Composition A4 comprising Diamond Floral Magnifica Fragrance Example 4b, and PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) substantially non-odorous fragrance modulator as compared to Composition C4, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0023] FIG. 7 provides the panel test results of the fragrance profile longevity, particularly intensity of the character attributable to the volatile fragrance materials, of Composition A4 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) substantially non-odorous fragrance

modulator as compared to Composition C4, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0024] FIG. 8 provides the panel test results of the fragrance profile longevity, particularly intensity of the character attributable to the volatile fragrance materials, of Composition A2 comprising Diamond Floral Magnifica Fragrance Example 4b, and Diisobutyl Adipate substantially non-odorous fragrance modulator as compared to Composition C2, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0025] FIG. 9 provides the panel test results of the fragrance profile longevity, particularly intensity of the character attributable to the volatile fragrance materials, of Composition A2 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and Diisobutyl Adipate substantially non-odorous fragrance modulator as compared to Composition C2, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0026] FIG. 10 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition A4 comprising Diamond Floral Magnifica Fragrance Example 4b, and PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) substantially non-odorous fragrance modulator as compared to Composition C4, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0027] FIG. 11 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition A4 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) substantially non-odorous fragrance modulator as compared to Composition C4, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0028] FIG. 12 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition D4 comprising Diamond Floral Magnifica Fragrance Example 4b, and Caprylyl/Capryl Glucoside (i.e., Plantacare® 810 UP) substantially non-odorous fragrance modulator as compared to Composition F4, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0029] FIG. 13 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition G4 comprising Diamond Floral Magnifica Fragrance Example 4b, and Undecyl Glucoside (i.e., Simulsol® SL 11W) substantially non-odorous fragrance modu-

lator as compared to Composition 14, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0030] FIG. 14 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition J4 comprising Diamond Floral Magnifica Fragrance Example 4b, and Isocetyl Alcohol (i.e., Ceraphyl® ICA) substantially non-odorous fragrance modulator as compared to Composition L4, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0031] FIG. 15 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition A2 comprising Diamond Floral Magnifica Fragrance Example 4b, and Diisobutyl Adipate substantially non-odorous fragrance modulator as compared to Composition C2, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0032] FIG. 16 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition A2 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and Diisobutyl Adipate substantially non-odorous fragrance modulator as compared to Composition C2, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0033] FIG. 17 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition J2 comprising Diamond Floral Magnifica Fragrance Example 4b, and PPG-11 Stearyl Ether substantially non-odorous fragrance modulator as compared to Composition L2, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0034] FIG. 18 provides the panel test results of fragrance profile fidelity, particularly the dominance of the floral character attributable to the volatile fragrance materials, of Composition J2 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and PPG-11 Stearyl Ether substantially non-odorous fragrance modulator as compared to Composition L2, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator, and as a function of time elapsed since application of the composition.

[0035] FIG. 19 provides the evaporation profile results for a representative component (i.e., indole) of test composition (MOD1) comprising a volatile fragrance mixture and PPG-3 Myristyl Ether (i.e., Tegosoft® APM) substantially non-odorous fragrance modulator as compared to a control composition (REF), and as a function of time elapsed since application of the composition.

[0036] FIG. 20 provides the evaporation profile results for a representative component (i.e., indole) of test composition

(MOD2) comprising a volatile fragrance mixture and Neopentyl Glycol Diethylhexanoate (i.e., Scherecemol™ NGDO) substantially non-odorous fragrance modulator as compared to a control composition (REF), and as a function of time elapsed since application of the composition.

[0037] FIG. 21 provides the evaporation profile results for a representative component (i.e., indole) of test composition (MOD3) comprising a volatile fragrance material mixture and Kolliphor® EL substantially non-odorous fragrance modulator as compared to a control composition (REF), and as a function of time elapsed since application of the composition.

[0038] FIGS. 22(a)(i) and 22(a)(ii) provide the headspace chromatography of the fragrance profile of Composition L2, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0039] FIGS. 22(b)(i) and 22(b)(ii) provide the headspace chromatography of the fragrance profile of Composition J2 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and PPG-11 Stearyl Ether substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0040] FIGS. 23(a)(i) and 23(a)(ii) provide the headspace chromatography of the fragrance profile of Composition C4, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0041] FIGS. 23(b)(i) and 23(b)(ii) provide the headspace chromatography of the fragrance profile of Composition A4 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and PPG-20 Methyl Glucose Ether (i.e., GLUCAM™ P-20) substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0042] FIGS. 24(a)(i) and 24(a)(ii) provide the headspace chromatography of the fragrance profile of Composition L4, comprising Traditional Floral Magnifica Fragrance Example 4a, and absent of a substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0043] FIGS. 24(b)(i) and 24(b)(ii) provide the headspace chromatography of the fragrance profile of Composition J4 comprising Diamond Floral Magnifica Fragrance Example 4b, and Isocetyl Alcohol (i.e., Ceraphyl® ICA) substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0044] FIGS. 25(a)(i) and 25(a)(ii) provides the headspace chromatography of the fragrance profile of Composition 14, comprising Traditional Muguesia Magnifica Fragrance Example 5a, and absent of a substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

[0045] FIGS. 25(b)(i) and 25(b)(ii) provide the headspace chromatography of the fragrance profile of Composition G4 comprising Diamond Muguesia Magnifica Fragrance Example 5b, and Undecyl Glucoside (i.e., Simulsol® SL 11W) substantially non-odorous fragrance modulator as a function of time elapsed, after 10 mins and 60 mins evaporation, respectively.

DETAILED DESCRIPTION OF THE
INVENTION

Definitions

[0046] As used herein, articles such as “a” and “an” when used in a claim, are understood to mean one or more of what is claimed or described.

[0047] As used herein, the terms “include”, “includes” and “including” are meant to be non-limiting.

[0048] As used herein, the term “body splash” means a body care formulation that is applied to the body. Typically, the body splash is applied to the body after bathing and provides a subtle hint of scent to the body. Body splashes are commonly used by consumers who prefer less strong fragrance compositions. A body splash may comprise an ethanol-free composition according to the present invention which comprises from 0.2-8 wt %, relative to the total weight of the composition, of a fragrance component. The body splash may further comprise alkyl polyglucosides as non-ionic surfactants.

[0049] As used herein, the term “body spray” means a formulation comprising fragrance materials intended to be applied to the body to prevent or mask body odor caused by the bacterial breakdown of perspiration on the body (e.g., armpits, feet, and other areas of the body). The body spray may also provide a fragrance expression to the consumers. Typically, body spray compositions are applied as an aerosol spray in an effective amount on the skin of a consumer.

[0050] As used herein, the term “composition” includes a fine fragrance composition intended for application to a body surface, such as for example, skin or hair, i.e., to impart a pleasant odor thereto, or cover a malodour thereof. They are generally in the form of perfume concentrates, perfumes, eau de parfums, eau de toilettes, aftershaves, or colognes. The fine fragrance compositions may be an ethanol-based composition. The term “composition” may also include a cosmetic composition, which comprises a fragrance material for the purposes of delivering a pleasant smell to drive consumer acceptance of the cosmetic composition. The term “composition” may also include body splashes or body sprays. The term “composition” may also include cleaning compositions, such as fabric care composition or home care compositions, including air care compositions (e.g., air fresheners), for use on clothing or other substrates such as hard surfaces (e.g., dishes, floors, countertops). Additional non-limiting examples of “composition” may also include facial or body powder, deodorant, foundation, body/facial oil, mousse, creams (e.g., cold creams), waxes, sunscreens and blocks, bath and shower gels, lip balms, self-tanning compositions, masks and patches.

[0051] As used herein, the term “consumer” means both the user of the composition and the observer nearby or around the user.

[0052] As used herein, the term “diamond construction” means a fragrance formulation as shown in FIG. 1b. In particular, the diamond construction relates to the relative weight % of the fragrance materials classified according to their vapor pressure category (i.e., low, moderate or high). A diamond constructed fragrance has a substantially greater amount of the perfume raw materials of a moderate volatility as compared to the low and high volatile fragrance materials.

[0053] As used herein, the term “fragrance material” and “fragrance materials” relates to a perfume raw material (“PRM”), or a mixture of perfume raw materials (“PRMs”),

that are used to impart an overall pleasant odour or fragrance profile to a composition. “Fragrance materials” can encompass any suitable perfume raw materials for fragrance uses, including materials such as, for example, alcohols, aldehydes, ketones, esters, ethers, acetates, nitriles, terpene hydrocarbons, nitrogenous or sulfurous heterocyclic compounds and essential oils. However, naturally occurring plant and animal oils and exudates comprising complex mixtures of various chemical components are also known for use as “fragrance materials”. The individual perfume raw materials which comprise a known natural oil can be found by reference to Journals commonly used by those skilled in the art such as “Perfume and Flavourist” or “Journal of Essential Oil Research”, or listed in reference texts such as the book by S. Arctander, *Perfume and Flavor Chemicals*, 1969, Montclair, N.J., USA and more recently re-published by Allured Publishing Corporation Illinois (1994). Additionally, some perfume raw materials are supplied by the fragrance houses (Firmenich, International Flavors & Fragrances, Givaudan, Symrise) as mixtures in the form of proprietary speciality accords. Non-limiting examples of the fragrance materials useful herein include pro-fragrances such as acetal pro-fragrances, ketal pro-fragrances, ester pro-fragrances, hydrolyzable inorganic-organic pro-fragrances, and mixtures thereof. The fragrance materials may be released from the pro-fragrances in a number of ways. For example, the fragrance may be released as a result of simple hydrolysis, or by a shift in an equilibrium reaction, or by a pH-change, or by enzymatic release.

[0054] As used herein, the term “fragrance profile” means the description of how the fragrance is perceived by the human nose at any moment in time. The fragrance profile may change over time. It is a result of the combination of the low, moderate and high volatile fragrance materials, if present, of a fragrance. A fragrance profile is composed of 2 characteristics: ‘intensity’ and ‘character’. The ‘intensity’ relates to the perceived strength whilst ‘character’ refers to the odour impression or quality of the perfume, i.e., fruity, floral, woody, etc.

[0055] As used herein, the terms “modulator”, and “fragrance modulator” are used interchangeably to designate an agent having the capacity to affect the fragrance profile, such as for example, by impacting the fragrance materials’ evaporation rate. The modulator may mediate its effect by lowering the vapor pressure of the fragrance materials and increasing their adherence to the substrate (skin and/or hair) thus ensuring a longer-lasting impression of the fragrance. By incorporating the modulator, it is desired that the fragrance profile, preferably the fragrance components of the diamond construction attributable to the moderate and high volatile fragrance materials of the composition can be perceived by a consumer, over a longer period of time, as compared to the same perception in the absence of the fragrance diamond construction and the modulator. Suitable examples of the modulator are provided herein below. However, as discovered by the inventors, simply adding modulators to a traditionally constructed fragrance composition (i.e., classical fragrance pyramid construction) will not ensure an improved or enhanced fidelity and/or longevity of the fragrance profile over time. Instead, it is only when the modulators are added in the presence of the fragrance diamond construction can the improved or enhanced fidelity and/or longevity of the fragrance profile, preferably attributable to the moderate and high volatile fragrance materials,

be perceived as compared to control composition absent the fragrance diamond construction and modulators.

[0056] As used herein, the term “substantially non-odorous” means an agent that does not impart an odour of its own when added into a composition of the present invention. For example, a “substantially non-odorous fragrance modulator” does not impart a new odour that alters the character of the fragrance profile of the composition to which it is added. The term “substantially non-odorous” also encompasses an agent that may impart a minimal or slight odour of its own when added into a composition of the present invention. However, the odour imparted by the “substantially non-odorous fragrance modulator” is generally undetectable or tends to not substantively alter the character of the fragrance profile of the composition to which it is added initially or preferably over time. Furthermore, the term “substantially non-odorous” also includes materials that are perceivable only by a minority of people or those materials deemed “anosmic” to the majority of people. Furthermore, the term “substantially non-odorous” also includes materials that may, from particular suppliers, contain an odour due to impurities, such as when the materials contain the impurities at not more than about 5 wt %, preferably not more than 1 wt %, often even not more than 1 part per million (ppm). These impurities may be removed by purification techniques known in the art as required to make them suitable for use in fragrance compositions of the present invention.

[0057] As used herein, the term “vapor pressure” means the partial pressure in air at a defined temperature (e.g., 25° C.) and standard atmospheric pressure (760 mmHg) for a given chemical species. It defines a chemical species’ desire to be in the gas phase rather than the liquid or solid state. The higher the vapor pressure the greater the proportion of the material that will, at equilibrium, be found in a closed headspace. It is also related to the rate of evaporation of a fragrance material which is defined in an open environment where material is leaving the system. The vapor pressure is determined according to the reference program Advanced Chemistry Development (ACD/Labs) Software Version 14.02, or preferably the latest version update).

[0058] It is understood that the test methods that are disclosed in the Test Methods Section of the present application must be used to determine the respective values of the parameters of Applicants’ inventions as described and claimed herein.

[0059] In all embodiments of the present invention, all percentages are by weight of the total composition, as evident by the context, unless specifically stated otherwise. All ratios are weight ratios, unless specifically stated otherwise, and all measurements are made at 25° C., unless otherwise designated.

Compositions

[0060] The inventors have surprisingly discovered a revolutionary new way of objectively classifying fragrance materials and then formulating those fragrance materials into complex fragrance mixtures having improved fragrance profile fidelity and longevity. Essentially, the solution is to formulate the fragrance materials into a diamond construction in the presence of a substantially non-odorous fragrance modulator to provide for improved or enhanced longevity and/or fidelity of the fragrance profile, particularly amongst characters derived from the more volatile fragrance materials (i.e., moderate and high vapor pressure range of the

perfumer’s palette). In fact, the inventors have discovered that in the complete absence of the low volatile fragrance materials or at very low levels of the low volatile fragrance materials (less than 10 wt % relative to the total weight of the fragrance component) there is insufficient character complexity and roundness of the fragrance profile for consumer acceptance of the composition. Therefore the level of low volatile fragrance materials needs to be carefully chosen between 10 wt % and 30 wt %, relative to the total weight of the fragrance component, to balance consumer acceptance and the desired improved or enhanced longevity and/or fidelity of the fragrance profile, particularly amongst characters attributable to the moderate and/or high volatile fragrance materials.

[0061] Unlike previous proposed classification of fragrance materials according to their characteristic characters, which tends to be subjective, the inventors have established new rules to objectively classifying fragrance materials into low, moderate or high volatile fragrance materials according to their volatility using their vapor pressures defined at a suitable temperature. For example, methyl dihydrojasmonate which has been typically classified as a heart note under the traditional approach is now classified as a low volatile fragrance material because it has a vapor pressure of 0.00071000 Torr (0.000095 kPa) at 25° C. This new classification better reflects methyl dihydrojasmonate’s technical properties of slow evaporation and long lasting.

[0062] Also unlike previous proposed uses of modulators to enhance fragrance profile, the inventors have established that the improved aforementioned advantages are not tied to a particular modulator of specific nature/structure but can be reapplied broadly. In fact, what the inventors have established is a systematic approach for providing longer lasting fragrance profiles that is totally unexpected and advantageous contribution to the perfumery technology.

[0063] Specifically, in one aspect, the present invention provides for a composition comprising a fragrance component present in an amount of from about 0.04 wt % to 30 wt %, preferably 1 wt % to about 30 wt %, more preferably less than about 25 wt %, yet more preferably less than about 20 wt %, yet even more preferably less than about 15 wt %, yet even more preferably less than about 10 wt % or most preferably less than about 8 wt %, relative to the total weight of the composition. Alternatively, the fragrance component is present in an amount of from about 0.04 wt %, 0.3 wt %, 1 wt %, 8 wt % or 10 wt %, to about 15 wt %, 20 wt %, 25 wt % or 30 wt %, relative to the total weight of the composition.

[0064] (i) Low Volatile Fragrance Materials

[0065] The fragrance component comprises at least one low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C. Preferably the composition according to the present invention comprises at least 3 low volatile fragrance materials, or at least 5 low volatile fragrance materials, or at least 7 low volatile fragrance materials. It is preferred that the composition of the present invention comprises low, preferably very low levels of the low volatile fragrance materials, lower than would traditionally be present in a fragrance pyramid three-tiered structure. As such, compositions of the present invention can comprise low levels of the low volatile fragrance material present in an amount of from about 10 wt % to about 30 wt %, preferably less than about 30 wt %, or preferably less than about 29 wt %, or preferably less than about 28 wt %, or

or preferably less than about 27 wt %, or preferably less than about 26 wt %, or preferably less than about 25 wt %, relative to the total weight of the fragrance component. Alternatively, the low volatile fragrance material is present in an amount of from about 10 wt %, 12 wt %, 15 wt %, 20 wt %, 25 wt % or 30 wt %, relative to the total weight of the fragrance component. If there is more than one low volatile fragrance materials, then the ranges provided hereinabove cover the total of all of the low volatile fragrance materials. Preferable examples of low volatile fragrances materials are provided in Table 1 below.

[0066] (ii) Moderate Volatile Fragrance Materials

[0067] The fragrance component comprises at least one moderate volatile fragrance material having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C. Preferably the composition according to the present invention comprises at least 3 moderate volatile fragrance materials, or at least 5 moderate volatile fragrance materials, or at least 7 moderate volatile fragrance materials. It is preferred that the composition of the present invention comprises high, preferably higher levels of the moderate volatile fragrance materials than would traditionally be present in a fragrance pyramid three-tiered structure. As such, compositions of the present invention can comprise high levels of the moderate volatile fragrance materials present in an amount of from about 40 wt % to about 80 wt %, preferably at least about 45 wt %, or preferably at least about 50 wt %, or preferably at least about 55 wt %, or preferably at least about 60 wt %, or preferably at least about 65 wt %, relative to the total weight of the fragrance component. Alternatively, the moderate volatile fragrance material is present in an amount less than about 75 wt %, or preferably less than 72 wt %, or preferably less than 70 wt %, relative to the total weight of the fragrance component. If there is more than one moderate volatile fragrance materials, then the ranges provided hereinabove cover the total of all of the moderate volatile fragrance materials. Preferable examples of moderate volatile fragrances materials are provided in Table 2 below.

[0068] (iii) High Volatile Fragrance Materials

[0069] The fragrance component comprises at least one high volatile fragrance material having a vapor pressure greater than 0.1 Torr (0.0133 kPa) at 25° C. Preferably the composition according to the present invention comprises at least 3 high volatile fragrance materials, or at least 5 high volatile fragrance materials, or at least 7 high volatile fragrance materials. It is preferred that the composition of the present invention comprises high volatile fragrance materials present in an amount of from about 1 wt % to about 30 wt %, preferably less than about 25 wt %, or preferably less than about 22 wt %, or preferably less than about 20 wt %, relative to the total weight of the fragrance component. Alternatively, the low volatile fragrance material is present in an amount of from about 6 wt %, 8 wt %, 10 wt %, 12 wt %, 14 wt % or 16 wt % relative to the total weight of the fragrance component. If there is more than one high volatile fragrance materials, then the ranges provided hereinabove cover the total of all of the high volatile fragrance materials. Preferable examples of high volatile fragrances materials are provided in Table 3 below.

[0070] (iv) Fragrance Modulators

[0071] The composition further comprises at least one substantially non-odorous fragrance modulator as described

herein below. Preferable examples of the substantially non-odorous fragrance modulators are provided in Table 4 below.

[0072] Preferably, the substantially non-odorous fragrance modulator is present in an amount of from about 0.1 wt % to about 20 wt %, preferably from about 0.5 wt % to about 18 wt % or more preferably from about 2.5 wt % to about 15 wt % or combinations thereof, relative to the total weight of the composition. Alternatively, the substantially non-odorous fragrance modulator is present in an amount of from about 0.1 wt %, 0.5 wt % or 2.5 wt % to about 15 wt %, 18 wt % or 20 wt %, relative to the total weight of the composition. If there is more than one substantially non-odorous fragrance modulators, then the ranges provided hereinabove cover the total of all of the substantially non-odorous fragrance modulators.

[0073] The substantially non-odorous fragrance modulator of the present invention may be a liquid at temperatures lower than 100° C., preferably at ambient temperature. The substantially non-odorous fragrance modulators may be fully miscible with the fragrance materials to form a single phase liquid. However, if the fragrance materials are not entirely miscible, or are immiscible, then co-solvents (e.g., dipropylene glycol (DPG), triethyl citrate, or others as well known to those skilled in the art) can be added to aid in the solubility of the fragrance materials.

[0074] Preferably, the composition according to the present invention, wherein the substantially non-odorous fragrance modulator does not comprise: (i) isocetyl alcohol, PPG-3 myristyl ether, neopentyl glycol diethylhexanoate or their mixtures; and (ii) n-hexadecyl n-nonanoate, n-octadecyl n-nonanoate or their mixtures.

[0075] Preferably, the composition according to the present invention, wherein the substantially non-odorous fragrance modulator and fragrance component are present in a weight ratio from about 3:1 to about 1:3.

[0076] The inventors have surprisingly discovered that by formulating the fragrance component into a diamond construction in a composition, the effect of the substantially non-odorous fragrance modulator on the fragrance profile, particularly the characters of the fragrance profile which is attributable to the moderate and high volatile fragrance materials, preferably the moderate volatile fragrance materials, can be improved. By “improved” it is meant that the fragrance profile of the composition, particular the components contributed by the moderate and high volatile fragrance materials, can be perceived by the consumer at later time points such as, for example, 2 hours, 3 hours, 4 hours, 5 hours, 6 hours, 7 hours, 8 hours, 10 hours, and possibly all the way up to 24 hrs after application as compared to controls, i.e., compositions containing the classical fragrance pyramid three-tiered structure and the substantially non-odorous fragrance modulator or compositions containing the classical fragrance pyramid three-tiered structure and no substantially non-odorous fragrance modulator.

[0077] Alternatively, by “improved” it can mean that the perception, by the consumer, of the fidelity of the fragrance profile contributed by the moderate and high volatile fragrance materials is markedly increased or enhanced as compared to the controls. “Increased” or “enhanced” means that the consumer perceives the fragrance profile, preferably the characters attributable to the moderate and/or high volatile fragrance materials, of a composition as not changing from its initial impression or the changes are minimal from when the composition was first applied to when it

dissipates. In other words, the fidelity of the perceived fragrance profile of the composition is maintained over time.

[0078] Typically, it has been very difficult to formulate fragrance profile, particularly a floral or spicy character of the moderate volatile fragrance materials, which can last for very long periods, especially throughout the life of the composition after its application, without giving way to the stronger characters of the low volatile fragrance materials. The present invention of the diamond construction of fragrance materials with the substantially non-odorous fragrance modulators allows perfumers to increase the olfactive perception of the moderate and high volatile fragrance materials, particularly the moderate volatile fragrance materials, to create new characters and address a re-occurring consumer issue that particular fragrance profiles, particularly those having floral or aromatic and spicy characters, do not last long enough.

[0079] Such a solution as presented herein provides enhanced or improved fidelity and/or longevity of the fragrance profile, particularly amongst those composition formulated from volatile fragrance materials having moderate to high vapor pressure ranges (greater than or equal to 0.001 Torr (0.000133 kPa) at 25° C.), without having to rely on the presence or significant amounts of the low volatile fragrance materials, which has a tendency to overpower and alter the overall fragrance profile, particularly over time. As a result, the present invention provides the perfumer options to formulate compositions having new fragrance profiles not possible before.

Volatile Solvents

[0080] The present invention provides the solution to the problem of extending the longevity of the fragrance profile of compositions, particularly fine fragrance and cosmetic compositions, preferably fine fragrance compositions, which commonly contain high levels of a volatile solvent. Preferably, the composition according to the present invention, further comprising a volatile solvent present in the amount of from about 50 wt % to about 80 wt %, or preferably from about 55 wt % to about 75 wt %, relative to the total weight of the composition, and wherein the solvent is a branch or unbranched C₁ to C₁₀ alkyl, akenyl or alkynyl group having at least one alcohol moiety, preferably ethanol, or isopropanol, or other alcohols (e.g., methanol, propanol, isopropanol, butanol, and mixtures thereof) commonly found in commercial fine fragrance products.

[0081] Accordingly, ethanol may be present in any of the compositions of the present invention, and more specifically, it will form from about 10 wt % to about 80 wt %, or even from about 25 wt % to about 75 wt % of the composition, or combinations thereof, relative to the total weight of the composition. Alternatively, ethanol may be present in an amount of from about 10 wt % or 25 wt % to about 75 wt % or 80 wt %, relative to the total weight of the composition. The ethanol useful in the present invention may be any acceptable quality of ethanol, compatible and safe for the specific intended use of the composition such as, for example, topical applications of fine fragrance or cosmetic compositions.

Water

[0082] In yet another aspect, water may be present in any of the compositions of the present invention, and more

specifically, it shall not exceed about 40 wt %, preferably about 20 wt % or less, or more preferably about 10 wt % or less, relative to the total weight of the composition. Alternatively, water may be present in an amount of from about 10 wt % or about 20 wt % to about 40 wt %, relative to the total weight of the composition. When the composition is a cosmetic composition the level of water should not be so high that the product becomes cloudy thus negatively impacting the product aesthetics. It is understood that the amount of water present in the composition may be from the water present in the volatile solvent (e.g., ethanol) used in the composition, as the case may be.

Non-Volatile Solvents

[0083] The composition may comprise a non-volatile solvent or a mixture of non-volatile solvents. Non-limiting examples of non-volatile solvents include benzyl benzoate, diethyl phthalate, isopropyl myristate, propylene glycol, dipropylene glycol, triethyl citrate, and mixtures thereof. These solvents often are introduced to the product via the perfume oil as many perfume raw materials may be purchased as a dilution in one of these solvents. Where non-volatile solvents are present, introduced either with the perfume materials or separately, then for the purposes of calculating the proportion of fragrance component having a vapor pressure of less than 0.001 Torr (0.000133 kPa) at 25° C. the total fragrance components does not include non-volatile solvents. Where non-volatile solvents are present, introduced either with the perfume materials or separately, then for the purposes of calculating the total level of fragrance component this does not include non-volatile solvents. In addition if present with cyclic oligosaccharides, the non-volatile solvent may be included at a weight ratio of the non-volatile solvent to the cyclic oligosaccharide of less than 1:1, less than 1:2, less than 1:10, or less than 1:100.

Entrapment Materials

[0084] In yet another aspect, compositions of the present invention may comprise an entrapment material at a level such that the weight ratio of the entrapment material to the fragrance materials is in the range of from about 1:20 to about 20:1. Preferably, the composition may comprise an entrapment material present in the amount of from about 0.001 wt % to about 40 wt %, from about 0.1 wt % to about 25 wt %, from about 0.3 wt % to about 20 wt %, from about 0.5 wt % to about 10 wt %, or from about 0.75 wt % to about 5 wt %, relative to the total weight of the composition. The compositions disclosed herein may comprise from 0.001 wt % to 40%, from 0.1 wt % to 25 wt %, from 0.3 wt % to 20 wt %, from 0.5 wt % to 10 wt % or from 0.75 wt % to 5 wt %, relative to the total weight of the composition, of a cyclic oligosaccharide.

[0085] Suitable entrapment materials for use herein are selected from polymers; capsules, microcapsules and nanocapsules; liposomes, absorbents; cyclic oligosaccharides and mixtures thereof. Preferred are absorbents and cyclic oligosaccharides and mixtures thereof. Highly preferred are cyclic oligosaccharides (see PCT Publication Nos. WO2000/67721 (Procter & Gamble); and WO2000/67720 (Procter & Gamble); and U.S. Pat. No. 6,893,647 (Procter & Gamble)).

[0086] As used herein, the term "cyclic oligosaccharide" means a cyclic structure comprising six or more saccharide

units. Preferred for use herein are cyclic oligosaccharides having six, seven or eight saccharide units and mixtures thereof, more preferably six or seven saccharide units and even more preferably seven saccharide units. It is common in the art to abbreviate six, seven and eight membered cyclic oligosaccharides to α , β and γ respectively.

[0087] The cyclic oligosaccharide of the compositions used for the present invention may comprise any suitable saccharide or mixtures of saccharides. Examples of suitable saccharides include, but are not limited to, glucose, fructose, mannose, galactose, maltose and mixtures thereof. However, preferred for use herein are cyclic oligosaccharides of glucose. The preferred cyclic oligosaccharides for use herein are α -cyclodextrins or β -cyclodextrins, or mixtures thereof, and the most preferred cyclic oligosaccharides for use herein are β -cyclodextrins.

[0088] The cyclic oligosaccharide, or mixture of cyclic oligosaccharides, for use herein may be substituted by any suitable substituent or mixture of substituents. Herein the use of the term "mixture of substituents" means that two or more different suitable substituents can be substituted onto one cyclic oligosaccharide. The derivatives of cyclodextrins consist mainly of molecules wherein some of the OH groups have been substituted. Suitable substituents include, but are not limited to, alkyl groups; hydroxyalkyl groups; dihydroxyalkyl groups; (hydroxyalkyl)alkylenyl bridging groups such as cyclodextrin glycerol ethers; aryl groups; maltosyl groups; allyl groups; benzyl groups; alkanoyl groups; cationic cyclodextrins such as those containing 2-hydroxy-3-(dimethylamino) propyl ether; quaternary ammonium groups; anionic cyclodextrins such as carboxyalkyl groups, sulphobutylether groups, sulphate groups, and succinylates; amphoteric cyclodextrins; and mixtures thereof.

[0089] The substituents may be saturated or unsaturated, straight or branched chain. Preferred substituents include saturated and straight chain alkyl groups, hydroxyalkyl groups and mixtures thereof. Preferred alkyl and hydroxyalkyl substituents are selected from C_1 - C_8 alkyl or hydroxyalkyl groups or mixtures thereof, more preferred alkyl and hydroxyalkyl substituents are selected from C_1 - C_6 alkyl or hydroxyalkyl groups or mixtures thereof, even more preferred alkyl and hydroxyalkyl substituents are selected from C_1 - C_4 alkyl or hydroxyalkyl groups and mixtures thereof. Especially preferred alkyl and hydroxyalkyl substituents are propyl, ethyl and methyl, more especially hydroxypropyl and methyl and even more preferably methyl.

[0090] Preferred cyclic oligosaccharides for use in the present invention are unsubstituted, or are substituted by only saturated straight chain alkyl, or hydroxyalkyl substituents. Therefore, preferred examples of cyclic oligosaccharides for use herein are α -cyclodextrin, β -cyclodextrin, methyl- α -cyclodextrin, methyl- β -cyclodextrin, hydroxypropyl- α -cyclodextrin and hydroxypropyl- β -cyclodextrin. Most preferred examples of cyclic oligosaccharides for use herein are methyl- α -cyclodextrin and methyl- β -cyclodextrin. These are available from Wacker-Chemie GmbH Hanns-Seidel-Platz 4, Munchen, Del. under the tradename Alpha W6 M and Beta W7 M respectively. Especially preferred is methyl- β -cyclodextrin.

[0091] The cyclic oligosaccharides of the compositions used for the present invention are preferably soluble in water, ethanol, or both water and ethanol. As used herein "soluble" means at least about 0.1 g of solute dissolves in 100 mL of solvent, at 25° C. and 1 standard atmospheric

pressure (760 mmHg). Preferably the cyclic oligosaccharides for use herein have a solubility of at least about 1 g/100 mL, at 25° C. and 1 atm of pressure. Preferred is that cyclic oligosaccharides are only present at levels up to their solubility limits in a given composition at room temperature. A person skilled in the art will recognise that the levels of cyclic oligosaccharides used in the present invention will also be dependent on the components of the composition and their levels, for example the solvents used or the exact fragrance oils, or combination of fragrance oils, present in the composition. Therefore, although the limits stated for the entrapment material are preferred, they are not exhaustive.

Propellants

[0092] The compositions described herein may include a propellant. Some examples of propellants include compressed air, nitrogen, inert gases, carbon dioxide, and mixtures thereof. Propellants may also include gaseous hydrocarbons like propane, n-butane, isobutene, cyclopropane, and mixtures thereof. Halogenated hydrocarbons like 1,1-difluoroethane may also be used as propellants. Some non-limiting examples of propellants include 1,1,1,2-pentafluoroethane, 1,1,1,2-tetrafluoroethane, 1,1,1,2,3,3,3-heptafluoropropane, trans-1,3,3,3-tetrafluoroprop-1-ene, dimethyl ether, dichlorodifluoromethane (propellant 12), 1,1-dichloro-1,1,2,2-tetrafluoroethane (propellant 114), 1-chloro-1,1-difluoro-2,2-trifluoroethane (propellant 115), 1-chloro-1,1-difluoroethylene (propellant 142B), 1,1-difluoroethane (propellant 152A), monochlorodifluoromethane, and mixtures thereof. Some other propellants suitable for use include, but are not limited to, A-46 (a mixture of isobutane, butane and propane), A-31 (isobutane), A-17 (n-butane), A-108 (propane), AP70 (a mixture of propane, isobutane and n-butane), AP40 (a mixture of propane, isobutane and n-butane), AP30 (a mixture of propane, isobutane and n-butane), and 152A (1,1 difluoroethane). The propellant may have a concentration from about 15%, 25%, 30%, 32%, 34%, 35%, 36%, 38%, 40%, or 42% to about 70%, 65%, 60%, 54%, 52%, 50%, 48%, 46%, 44%, or 42% by weight of the total fill of materials stored within the container.

Antiperspirant Active

[0093] The compositions described herein may be free of, substantially free of, or may include an antiperspirant active (i.e., any substance, mixture, or other material having antiperspirant activity). Examples of antiperspirant actives include astringent metallic salts, like the inorganic and organic salts of aluminum, zirconium and zinc, as well as mixtures thereof. Such antiperspirant actives include, for example, the aluminum and zirconium salts, such as aluminum halides, aluminum hydroxyhalides, zirconyl oxyhalides, zirconyl hydroxyhalides, and mixtures thereof.

Other Ingredients

[0094] In yet another aspect, the composition consists essentially of the recited ingredients but may contain small amounts (not more than about 10 wt %, preferably no more than 5 wt %, or preferably no more than 2 wt % thereof, relative to the total weight of the composition) of other ingredients that do not impact on the fragrance profile, particularly the evaporation rate and release of the fragrance materials. For example, a fine fragrance composition may

comprise stabilizing or anti-oxidant agents, UV filters or quenchers, or colouring agents, commonly used in perfumery. There are a number of other examples of additional ingredients that are suitable for inclusion in the present compositions, particularly in compositions for cosmetic use. These include, but are not limited to, alcohol denaturants such as denatonium benzoate; UV stabilisers such as benzophenone-2; antioxidants such as tocopheryl acetate; preservatives such as phenoxyethanol, benzyl alcohol, methyl paraben, and propyl paraben; dyes; pH adjusting agents such as lactic acid, citric acid, sodium citrate, succinic acid, phosphoric acid, sodium hydroxide, and sodium carbonate; deodorants and anti-microbials such as farnesol and zinc phenolsulphonate; humectants such as glycerine; oils; skin conditioning agents such as allantoin; cooling agents such as trimethyl isopropyl butanamide and menthol; silicones; solvents such as hexylene glycol; hair-hold polymers such as those described in PCT Publication No. WO94/08557 (Procter & Gamble); salts in general, such as potassium acetate and sodium chloride and mixtures thereof.

[0095] In yet another aspect, the composition of the present invention, depending on its intended use, is a mixture of fragrance materials possibly together with other ingredients such as, for example, perfume carriers. By the term “perfume carrier”, it is meant to include materials which are practically neutral from a perfumery point of view, i.e., which does not significantly alter the organoleptic properties of perfuming components. The perfume carrier may be a compatible liquid or solid fillers, diluents, and the like. The term “compatible”, as used herein, means that the components of the compositions of this invention are capable of being combined with the primary actives of the present invention, and with each other, in a manner such that there is no interaction which would substantially reduce the efficacy of the composition under ordinary use situations. The type of carrier utilized in the present invention depends on the type of product desired and may comprise, but are not limited to, solutions, aerosols, emulsions (including oil-in-water or water-in-oil), gels, and liposomes. Preferably, the carrier is a liquid and will be a solvent such as, for example, dipropylene glycol, diethyl phthalate, isopropyl myristate, benzyl benzoate, 2-(2-ethoxyethoxy)-1-ethanol, or ethyl citrate (triethyl citrate).

[0096] In yet another aspect, the compositions for use in the present invention may take any form suitable for use, more preferably for perfumery or cosmetic use. These include, but are not limited to, vapor sprays, aerosols, emulsions, lotions, liquids, creams, gels, sticks, ointments, pastes, mousses, powders, granular products, substrates, cosmetics (e.g., semi-solid or liquid makeup, including foundations) and the like. Preferably the compositions for use in the present invention take the form of a vapor spray. Compositions of the present invention can be further added as an ingredient to other compositions, preferably fine fragrance or cosmetic compositions, in which they are compatible. As such they can be used within solid composition or applied substrates etc.

[0097] Preferably, the compositions of the present invention comprise:

[0098] (i) a fragrance component present in an amount of from about 0.04 wt % to about 30 wt %, relative to the total weight of the composition, and wherein the fragrance component comprises:

[0099] (a) at least one low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C.;

[0100] (b) at least one moderate volatile fragrance material having a vapor pressure from greater than or equal to 0.001 Torr to 0.1 Torr (0.000133 kPa to 0.0133 kPa) at 25° C.; and

[0101] (c) at least one high volatile fragrance material having a vapor pressure greater than 0.1 Torr (0.0133 kPa) at 25° C.;

[0102] wherein the weight ratio of (a) versus the combination of (b) and (c) are present in the range of from about 1:2.33 to about 1:9;

[0103] (ii) at least one substantially non-odorous fragrance modulator present in the amount of from about 0.1 wt % to about 20 wt %, relative to the total weight of the composition;

[0104] (iii) a volatile solvent present in an amount of from about 50 wt % to about 80 wt %, relative to the total weight of the composition; and

[0105] (iv) optionally water.

[0106] Preferably, the present invention relates to a fine fragrance composition, preferably in the form of a perfume concentrate, a perfume, a parfum, an eau de toilette, an eau de parfum, or a cologne.

[0107] Preferably, the present invention relates to a composition, wherein the composition is in the form of a body splash or a body spray.

[0108] Therefore, it goes without saying that the compositions of the present invention encompasses any composition comprising any of the ingredients cited herein, in any embodiment wherein each such ingredient is independently present in any appropriate amount as defined herein. Many such compositions, than what is specifically set out herein, can be encompassed.

Article of Manufacture

[0109] The composition may be included in an article of manufacture comprising a spray dispenser. The spray dispenser may comprise a vessel for containing the composition to be dispensed. The spray dispenser may comprise an aerosolized composition (i.e., a composition comprising a propellant) within the vessel as well. Other non-limiting examples of spray dispensers include non-aerosol dispensers (e.g., vapor sprays), manually activated dispensers, pump-spray dispensers, or any other suitable spray dispenser available in the art.

Methods of Using the Compositions

[0110] The composition of the present invention according to any embodiments described herein is a useful perfuming composition, which can be advantageously used as consumer products intended to perfume any suitable substrate. As used herein, the term “substrate” means any surface to which the composition of the present invention may be applied to without causing any undue adverse effect. For example, this can include a wide range of surfaces including human or animal skin or hair, paper (fragranced paper), air in a room (air freshener or aromatherapy composition), fabric, furnishings, dishes, hard surfaces and related materials. Preferred substrates include body surfaces such as, for example, hair and skin, most preferably skin.

[0111] The composition of the present invention may be used in a conventional manner for fragrancing a substrate. An effective amount of the composition, typically from about 1 μL to about 10,000 μL , preferably from about 10 μL to about 1,000 μL , more preferably from about 25 μL to about 500 μL , or most preferably from about 50 μL to about 100 μL , or combinations thereof, is applied to the suitable substrate. Alternatively, an effective amount of the composition of the present invention is from about 1 μL , 10 μL , 25 μL or 50 μL to about 100 μL , 500 μL , 1,000 μL or 10,000 μL . The composition may be applied by hand or applied utilizing a delivery apparatus such as, for example, vaporizer or atomizer. Preferably, the composition is allowed to dry after its application to the substrate. The scope of the present invention should be considered to cover one or more distinct applications of the composition or the continuous release of a composition via a vaporizer or other type of atomizer.

[0112] The present invention provides a method for imparting, intensifying, or modifying an odour on human skin or human hair, comprising applying to human skin and/or human hair the composition of the present invention. It is preferred that the method is for imparting, intensifying or modifying the longevity of a floral character or aromatic/spicy character on human skin or human hair, wherein the perceived intensity of the floral character or aromatic/spicy character at 1 hr, 2 hrs, 3 hrs or 6 hrs after application is greater than a control composition that does not include the substantially non-odorous fragrance modulator as determined by the panel method as disclosed herein.

[0113] Non-limiting examples of floral character is selected from the group consisting of lavender-type note, a rose-type note, a lily of the valley-type note, a muguet-type note, a jasmine-type note, a magnolia-type note, a cyclamen-type note, a hyacinth-type note, a lilac-type note, an orange blossom-type note, a cherry blossom-type note, a peony-type note, a lotus-type note, a linden blossom-type note, an osmanthus-type note, a lilac-type note, a heliotrope-type note, a violet-type note, an orris-type note, a tiare-type note, a patchouli-type note and the like.

[0114] Non-limiting examples of aromatic (or haerbaeous) and spicy character include: cinnamon, cloves, coriander, ginger, saffron, peppers of various kinds (e.g.: black pepper, pink pepper), caraway, cardamom, anise, tea, coffee, cumin, nutmeg, coumarin, basil, rosemary, thyme, mint, tarragon, marjoram, fennel, sage, juniper and the like.

[0115] Preferably, the fragrance profile or character of the composition of the present invention is detectable by a consumer at later time points such as, for example, 2 hours, 3 hours, 4 hours, 5 hours, 6 hours, 7 hours, 8 hours, 10 hours, and possibly all the way up to 24 hours after application of the composition to a substrate as compared to controls (i.e., classical fragrance pyramid three-tiered structure).

[0116] The present invention also relates to compositions of the present invention that may be used as consumer products or articles selected from the group consisting of a fabric care product, an air care product, or a home care product. Therefore, according to this embodiment, the present invention provides a method of modifying or enhancing the odour properties of a substrate, preferably fabric, furnishings, dishes, hard surfaces and related materials, comprising contacting or treating the substrate with a composition of the present invention.

[0117] In another aspect, the present invention is also directed to a method of producing a consumer product

comprising bringing into contact or mixing into the product an organoleptically active quantity of a composition of the present invention.

Fragrance Materials

[0118] In order that the compositions can be developed with the appropriate fragrance profile for the present invention, the “fragrance materials” have been classified as low, moderate or high volatile fragrance materials according to their volatility by their vapor pressure. This method of classifying fragrance materials by their vapor pressure avoids the problem of different classifications for the same fragrance material according to the traditional approach that relies on their subjective characteristic character. For the purpose of clarity, when the fragrance materials refer to a single individual compound, its vapor pressure should be determined according to the reference program cited above. In the case that the fragrance materials are a natural oil, extract or absolute, which comprises a mixture of several compounds, the vapor pressure of the complete oil should be treated a mixture of the individual perfume raw material components using the reference program cited above. The individual components and their level, in any given natural oil or extract, can be determined by direct injection of the oil into a GC-MS column for analysis as known by one skilled in the art. In the scenario that the fragrance materials are a proprietary specialty accord, so called ‘bases’, the vapor pressure, using the reference program cited above, should preferably be obtained from the supplier. However, it is understood by one skilled in the art that they can physically analyze the composition of a full fragrance oil available commercially to identify the fragrance raw materials and their levels using standard GC-MS techniques. This would be irrespective of whether they had been added to the fragrance oil as individual chemicals, as components of naturals or from proprietary bases. Although proprietary bases and naturals are included in our examples, when analyzing a commercially available fragrance via GC-MS one could simply identify the components of the base or natural oil as part of the overall fragrance mixture and their levels, without being able to identify which proprietary base or natural oil the fragrance had come from.

[0119] The nature and type of fragrance materials in the compositions according to the present invention can be selected by the skilled person, on the basis of its general knowledge together with the teachings contained herein, with reference to the intended use or application of the composition and the desired fragrance profile effect. Examples of suitable fragrance materials are disclosed in U.S. Pat. No. 4,145,184, U.S. Pat. No. 4,209,417, U.S. Pat. No. 4,515,705, and U.S. Pat. No. 4,152,272.

Low Volatile Fragrance Materials

[0120] Preferable examples of fragrance materials having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C. are provided in Table 1 Low Volatile Fragrance Materials. Preferably, the low volatile fragrance material is selected from at least 1 material, or at least 2 materials, or at least 3 materials, or at least 5 materials, or at least 7 low volatile fragrance materials as disclosed in Table 1.

TABLE 1

Low Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
1.	1211-29-6	Cyclopentaneacetic acid, 3-oxo-2-(2Z)-2-penten-1-yl-, methyl ester, (1R,2R)-	Methyl jasmonate	0.00096500
2.	28219-60-5	2-Buten-1-ol, 2-methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-	Hindinol	0.00096100
3.	93-08-3	Ethanone, 1-(2-naphthalenyl)-	Methyl beta-naphthyl ketone	0.00095700
4.	67633-95-8	3-Decanone, 1-hydroxy-	Methyl Lavender Ketone	0.00095100
5.	198404-98-7	Cyclopropanemethanol, 1-methyl-2-[[1,2,2-trimethylbicyclo[3.1.0]hex-3-yl)methyl]-	Javanol ®	0.00090200
6.	121-32-4	Benzaldehyde, 3-ethoxy-4-hydroxy-	Ethyl vanillin	0.00088400
7.	72403-67-9	3-Cyclohexene-1-methanol, 4-(4-methyl-3-penten-1-yl)-, 1-acetate	Myraldylacetate	0.00087900
8.	28940-11-6	2H-1,5-Benzodioxepin-3(4H)-one, 7-methyl-	Oxalone ®	0.00083100
9.	139504-68-0	2-Butanol, 1-[[2-(1,1-dimethylethyl)cyclohexyl]oxy]-	Amber core	0.00080300
10.	502847-01-0	Spiro[5.5]undec-8-en-1-one, 2,2,7,9-tetramethyl-	Spiro[5.5]undec-8-en-1-one, 2,2,7,9-tetramethyl-	0.00073100
11.	2570-03-8	Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester, (1R,2R)-rel-	trans-Hedione	0.00071000
12.	24851-98-7	Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester	Methyl dihydrojasmonate or alternatives ¹	0.00071000
13.	101-86-0	Octanal, 2-(phenylmethylene)-	Hexyl cinnamic aldehyde	0.00069700
14.	365411-50-3	Indeno[4,5-d]-1,3-dioxin, 4,4a,5,6,7,8,9,9b-octahydro-7,7,8,9,9-pentamethyl-	Nebulone	0.00069200
15.	37172-53-5	Cyclopentanecarboxylic acid, 2-hexyl-3-oxo-, methyl ester	Dihydro Iso Jasmonate	0.00067500
16.	65113-99-7	3-Cyclopentene-1-butanol, $\alpha,\beta,2,2,3$ -pentamethyl-	Sandalore ®	0.00062500
17.	68133-79-9	Cyclopentanone, 2-(3,7-dimethyl-2,6-octadien-1-yl)-	Apritone	0.00062000
18.	7212-44-4	1,6,10-Dodecatrien-3-ol, 3,7,11-trimethyl-	Nerolidol	0.00061600
19.	53243-59-7	2-Pentenenitrile, 3-methyl-5-phenyl-, (2Z)-	Citronitril	0.00061500
20.	134123-93-6	Benzenepropanenitrile, 4-ethyl- α,α -dimethyl-	Fleuranyl	0.00057600
21.	77-53-2	1H-3a,7-Methanoazulen-6-ol, octahydro-3,6,8,8-tetramethyl-, (3R,3aS,6R,7R,8aS)-	Cedrol Crude	0.00056900
22.	68155-66-8	Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	Iso Gamma Super	0.00056500
23.	54464-57-2	Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	Iso-E Super ®	0.00053800
24.	774-55-0	Ethanone, 1-(5,6,7,8-tetrahydro-2-naphthalenyl)-	Florantone	0.00053000
25.	141-92-4	2-Octanol, 8,8-dimethoxy-2,6-dimethyl-	Hydroxycitronellal Dimethyl Acetal	0.00052000
26.	20665-85-4	Propanoic acid, 2-methyl-, 4-formyl-2-methoxyphenyl ester	Vanillin isobutyrate	0.00051200
27.	79-78-7	1,6-Heptadien-3-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	Hexalol	0.00049800
28.	6259-76-3	Benzoic acid, 2-hydroxy-, hexyl ester	Hexyl Salicylate	0.00049100
29.	93-99-2	Benzoic acid, phenyl ester	Phenyl Benzoate	0.00047900
30.	153859-23-5	Cyclohexanepropanol, 2,2,6-trimethyl- α -propyl-, (1R,6S)-	Norlimbanol	0.00046900
31.	70788-30-6	Cyclohexanepropanol, 2,2,6-trimethyl- α -propyl-	Timberol	0.00046900
32.	68555-58-8	Benzoic acid, 2-hydroxy-, 3-methyl-2-buten-1-yl ester	Prenyl Salicylate	0.00045700

TABLE 1-continued

Low Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
33.	950919-28-5	2H-1,5-Benzodioxepin-3(4H)-one, 7-(1-methylethyl)-	Cascalone	0.00045500
34.	30168-23-1	Butanal, 4-(octahydro-4,7-methano-5H-inden-5-ylidene)-	Dupical	0.00044100
35.	1222-05-5	Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	Galaxolide ®	0.00041400
36.	4602-84-0	2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-	Farnesol	0.00037000
37.	95962-14-4	Cyclopentanone, 2-[2-(4-methyl-3-cyclohexen-1-yl)propyl]-	Nectaryl	0.00036700
38.	4674-50-4	2(3H)-Naphthalenone, 4,4a,5,6,7,8-hexahydro-4,4a-dimethyl-6-(1-methylethenyl)-, (4R,4aS,6R)-	Nootkatone	0.00035800
39.	3487-99-8	2-Propenoic acid, 3-phenyl-, pentyl ester	Amyl Cinnamate	0.00035200
40.	10522-41-5	2-hydroxy-2-phenylethyl acetate	Styrollyl Acetate	0.00033900
41.	118-71-8	4H-Pyran-4-one, 3-hydroxy-2-methyl-	Maltol	0.00033700
42.	128119-70-0	1-Propanol, 2-methyl-3-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)oxy]-	Bornafix	0.00033400
43.	103614-86-4	1-Naphthalenol, 1,2,3,4,4a,5,8,8a-octahydro-2,2,6,8-tetramethyl-	Octalynol	0.00033200
44.	7785-33-3	2-Butenoic acid, 2-methyl-, (2E)-3,7-dimethyl-2,6-octadien-1-yl ester, (2E)-	Geranyl Tiglate	0.00033200
45.	117933-89-8	1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)-	Karanal	0.00033100
46.	629-92-5	Nonadecane	Nonadecane	0.00032500
47.	67801-20-1	4-Penten-2-ol, 3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-	Ebanol	0.00028100
48.	65416-14-0	Propanoic acid, 2-methyl-, 2-methyl-4-oxo-4H-pyran-3-yl ester	Maltol Isobutyrate	0.00028000
49.	28219-61-6	2-Buten-1-ol, 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-	Laevo Trisandol	0.00028000
50.	5986-55-0	1,6-Methanonaphthalen-1(2H)-ol, octahydro-4,8a,9,9-tetramethyl-, (1R,4S,4aS,6R,8aS)-	Healingwood	0.00027800
51.	195251-91-3	2H-1,5-Benzodioxepin-3(4H)-one, 7-(1,1-dimethylethyl)-	Transluzone	0.00026500
52.	3100-36-5	8-Cyclohexadecen-1-one	Cyclohexadecenone	0.00025300
53.	65405-77-8	Benzoic acid, 2-hydroxy-, (3Z)-3-hexen-1-yl ester	cis-3-Hexenyl salicylate	0.00024600
54.	4940-11-8	4H-Pyran-4-one, 2-ethyl-3-hydroxy-	Ethyl Maltol	0.00022800
55.	541-91-3	Cyclopentadecanone, 3-methyl-	Muskone	0.00017600
56.	118-58-1	Benzoic acid, 2-hydroxy-, phenylmethyl ester	Benzyl salicylate	0.00017500
57.	81783-01-9	6,8-Nonadien-3-one, 2,4,4,7-tetramethyl-, oxime	Labienoxime	0.00017300
58.	25485-88-5	Benzoic acid, 2-hydroxy-, cyclohexyl ester	Cyclohexyl Salicylate	0.00017300
59.	91-87-2	Benzene, [2-(dimethoxymethyl)-1-hepten-1-yl]-	Amyl Cinnamic Aldehyde Dimethyl Acetal	0.00016300
60.	104864-90-6	3-Cyclopentene-1-butanol, β ,2,2,3-tetramethyl- δ -methylene-	Firsantol	0.00016000
61.	224031-70-3	4-Penten-1-one, 1-spiro[4.5]dec-7-en-7-yl-	Spirogalbanone	0.00015300
62.	134-28-1	5-Azulenemethanol, 1,2,3,4,5,6,7,8-octahydro- α , α ,3,8-tetramethyl-, 5-acetate, (3S,5R,8S)-	Guaiyl Acetate	0.00013400
63.	236391-76-7	Acetic acid, 2-(1-oxopropoxy)-, 1-(3,3-dimethylcyclohexyl)ethyl ester	Romandolide ®	0.00012400
64.	115-71-9	2-Penten-1-ol, 5-[(1R,3R,6S)-2,3-dimethyltricyclo[2.2.1.0.2,6]hept-3-yl]-2-methyl-, (2Z)-	cis-alpha-Santalol	0.00011800

TABLE 1-continued

Low Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
65.	107898-54-4	4-Penten-2-ol, 3,3-dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-	Polysantol ®	0.00011700
66.	69486-14-2	5,8-Methano-2H-1-benzopyran-2-one, 6-ethylideneoctahydro-	Florex ®	0.00011000
67.	84697-09-6	Heptanal, 2-[(4-methylphenyl)methylene]-	Acalea	0.00010100
68.	14595-54-1	4-Cyclopentadecen-1-one, (4Z)-	Exaltenone	0.00009640
69.	32388-55-9	Ethanone, 1-[(3R,3aR,7R,8aS)-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl]-	Vertofix ®	0.00008490
70.	131812-67-4	1,3-Dioxolane, 2,4-dimethyl-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-	Okoumal ®	0.00007600
71.	106-02-5	Oxacyclohexadecan-2-one	Exaltolide ®	0.00006430
72.	141773-73-1	1-Propanol, 2-[1-(3,3-dimethylcyclohexyl)ethoxy]-2-methyl-, 1-propanoate	Helvetolide ®	0.00005790
73.	63314-79-4	5-Cyclopentadecen-1-one, 3-methyl-	Delta Muscenone	0.00005650
74.	77-42-9	2-Penten-1-ol, 2-methyl-5-[(1S,2R,4R)-2-methyl-3-methylenebicyclo[2.2.1]hept-2-yl]-, (2Z)-	cis-beta-Santalol	0.00004810
75.	362467-67-2	2H-1,5-Benzodioxepin-3(4H)-one, 7-(3-methylbutyl)-	Azurone	0.00004770
76.	28371-99-5	Ethanone, 1-(2,6,10-trimethyl-2,5,9-cyclododecatrien-1-yl)-	Trimofix O	0.00004580
77.	16223-63-5	1H-3a,6-Methanoazulene-3-methanol, octahydro-7,7-dimethyl-8-methylene-, (3S,3aR,6R,8aS)-	Khusimol	0.00004400
78.	10461-98-0	Benzeneacetonitrile, α -cyclohexylidene-	Peonile	0.00004290
79.	90-17-5	Benzenemethanol, α -(trichloromethyl)-, 1-acetate	Rosacetol	0.00004240
80.	50607-64-2	Benzoic acid, 2-[(2-methylpentylidene)amino]-, methyl ester	Mevantraal	0.00004070
81.	29895-73-6	5-Hydroxy-2-benzyl-1,3-dioxane	Acetal CD	0.00004050
82.	94-47-3	Benzoic acid, 2-phenylethyl ester	Phenyl Ethyl Benzoate	0.00003480
83.	3100-36-5	Cyclohexadec-8-en-1-one	Globanone ®	0.00003310
84.	37609-25-9	5-Cyclohexadecen-1-One	Ambretone	0.00003310
85.	66072-32-0	Cyclohexanol, 4-(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)-	Iso Bornyl Cyclohexanol	0.00003010
86.	31906-04-4	3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)-	Lyril ®	0.00002940
87.	21145-77-7	Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	Musk Plus	0.00002860
88.	21145-77-7	Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)-	Fixolide	0.00002860
89.	22442-01-9	2-Cyclopentadecen-1-one, 3-methyl-	Muscenone	0.00002770
90.	109-29-5	Oxacycloheptadecan-2-one	Silvanone Ci	0.00002600
91.	101-94-0	Benzeneacetic acid, 4-methylphenyl ester	Para Cresyl Phenyl Acetate	0.00002330
92.	102-20-5	Benzeneacetic acid, 2-phenylethyl ester	Phenyl Ethyl Phenyl Acetate	0.00002300
93.	118562-73-5	Cyclododecaneethanol, β -methyl-	Hydroxyambran	0.00001800
94.	103-41-3	2-Propenoic acid, 3-phenyl-, phenylmethyl ester	Benzyl Cinnamate	0.00001050
95.	4707-47-5	Benzoic acid, 2,4-dihydroxy-3,6-dimethyl-, methyl ester	Veramoss	0.00001050
96.	183551-83-9	Naphtho[2,1-b]furan-6(7H)-one, 8,9-dihydro-1,5,8-trimethyl-, (8R)-	Myrrhone	0.00000977
97.	102-17-0	Benzeneacetic acid, (4-methoxyphenyl)methyl ester	Para Anisyl Phenyl Acetate	0.00000813

TABLE 1-continued

Low Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
98.	120-11-6	Benzene, 2-methoxy-1-(phenylmethoxy)-4-(1-propen-1-yl)-	Benzyl Iso Eugenol	0.00000676
99.	102-22-7	Benzeneacetic acid, (2E)-3,7-dimethyl-2,6-octadien-1-yl ester	Geranyl Phenylacetate	0.00000645
100.	111879-80-2	Oxacyclohexadec-12-en-2-one, (12E)-	Habanolide 100%	0.00000431
101.	87-22-9	Benzoic acid, 2-hydroxy-, 2-phenylethyl ester	Phenyl Ethyl Salicylate	0.00000299
102.	78-37-5	2-Propenoic acid, 3-phenyl-, 1-ethenyl-1,5-dimethyl-4-hexen-1-yl ester	Linalyl Cinnamate	0.00000174
103.	28645-51-4	Oxacycloheptadec-10-en-2-one	Ambrettolide	0.00000139
104.	123-69-3	Oxacycloheptadec-8-en-2-one, (8Z)-	Ambrettolide	0.00000136
105.	3391-83-1	1,7-Dioxacycloheptadecan-8-one	Musk RI	0.00000057
106.	68527-79-7	7-Octen-2-ol, 8-(1H-indol-1-yl)-2,6-dimethyl-	Indolene	0.000000445
107.	89-43-0	Methyl 2-[(7-hydroxy-3,7-dimethyloctylidene)amino]benzoate	Aurantinol	0.0000000100
108.	54982-83-1	1,4-Dioxacyclohexadecane-5,16-dione	Zenolide	0.00000000834
109.	105-95-3	1,4-Dioxacycloheptadecane-5,17-dione	Ethylene Brassylate	0.00000000313
110.	3681-73-0	Hexadecanoic acid, (2E)-3,7-dimethyl-2,6-octadien-1-yl ester	Hexarose	0.00000000300
111.	4159-29-9	Phenol, 4-[3-(benzoyloxy)-1-propen-1-yl]-2-methoxy-	Coniferyl benzoate	0.00000000170
112.	144761-91-1	Benzoic acid, 2-[(1-hydroxy-3-phenylbutyl)amino]-, methyl ester	Trifone DIPG	0.00000000093

¹Non-limiting examples of alternative qualities from various suppliers can be purchased under the following tradenames: Kharisimal ® Super (IFF), Kharisimal ® (IFF), Hedione ® (Firmenich), Hedione ® HC (Firmenich), Paradisone (Firmenich), Cepionate (Zenon), Super cepionate (Zenon), Clageon ® (Zenon).

*Vapor Pressures are acquired as described in the Test Methods Section.

**Origin: The low volatile fragrance materials may be obtained from one or more of the following companies: Firmenich (Geneva, Switzerland), Symrise AG (Holzminden, Germany), Givaudan (Argenteuil, France), IFF (Hazlet, New Jersey), Bedoukian (Danbury, Connecticut), Sigma Aldrich (St. Louis, Missouri), Millennium Speciality Chemicals (Olympia Fields, Illinois), Polarone International (Jersey City, New Jersey), and Aroma & Flavor Specialities (Danbury, Connecticut).

[0121] Exemplary low volatile fragrance materials selected from the group of Table 1 Low Volatile Fragrance Materials are preferred. However, it is understood by one skilled in the art that other low volatile fragrance materials, not recited in Table 1, would also fall within the scope of the present invention, so long as they have a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C.

[0122] Preferably, the compositions of the present invention, wherein: (i)(a) the low volatile fragrance material is selected from the group of Table 1 Low Volatile Fragrance Materials 1, 4-6, 8, 12-16, 18, 22-25, 27-28, 31, 34-37, 41, 45, 47, 52-55, 57, 60, 61, 63, 65, 68, 69-74, 75, 78, 80, 83-84, 89, 94, 99, 102, 104, 106-108, and mixtures thereof; and (ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odororous Fragrance Modulators 1-5, and mixtures thereof.

[0123] Preferably, the compositions of the present invention, wherein: (i)(a) the low volatile fragrance material is selected from the group consisting of Table 1 Low Volatile Fragrance Materials 1-6, 8-9, 12-14, 16, 18-19, 23, 25-28, 31, 34-35, 37, 41-42, 45, 47-49, 53-55, 57-60, 63, 65, 69, 71-73, 75, 78-79, 81, 84-85, 95, 100, 103, 105, 107, 109 and

mixtures thereof; and (ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odororous Fragrance Modulators 6-8, and mixtures thereof.

[0124] Preferably, the compositions of the present invention, the low volatile fragrance material is selected from the group (as described herein above), and wherein this group of low volatile fragrance material has at least about 20 wt %, at least about 30 wt %, at least about 40 wt %, at least about 50 wt %, at least about 60 wt %, or at least about 70 wt %, relative to the total weight of the low volatile fragrance material.

[0125] (ii) Moderate Volatile Fragrance Materials

[0126] Preferable examples of moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C. are provided in Table 2 Moderate Volatile Fragrance Materials. Preferably, the moderate volatile fragrance material is selected from at least 1 material, or at least 2 materials, or at least 3 materials, or at least 5 materials, or at least 7 moderate volatile fragrance materials as disclosed in Table 2.

TABLE 2

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
1.	24168-70-5	Pyrazine, 2-methoxy-3-(1-methylpropyl)-	Methoxyisobutylpyrazine	0.09950000
2.	89-79-2	Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1R, 2S,5R)-	Iso-Pulegol	0.09930000
3.	112-12-9	2-Undecanone	Methyl Nonyl Ketone	0.09780000
4.	103-05-9	Benzenepropanol, α,α -dimethyl-	Phenyl Ethyl Dimethyl Carbinol	0.09770000
5.	125-12-2	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, 2-acetate, (1R,2R,4R)-rel-	Iso Bornyl Acetate	0.09590000
6.	78-70-6	1,6-Octadien-3-ol, 3,7-dimethyl-	Linalool	0.09050000
7.	101-97-3	Benzeneacetic acid, ethyl ester	Ethyl Phenyl Acetate	0.08970000
8.	100-86-7	Benzeneethanol, α,α -dimethyl-	Dimethyl Benzyl Carbinol	0.08880000
9.	188570-78-7	Cyclopropanecarboxylic acid, (3Z)-3-hexen-1-yl ester	Montaverdi	0.08640000
10.	67634-25-7	3-Cyclohexene-1-methanol, 3,5-dimethyl-, 1-acetate	Floralate	0.08500000
11.	112-44-7	Undecanal	Undecyl Aldehyde	0.08320000
12.	32669-00-4	Ethanone, 1-(3-cycloocten-1-yl)-	Tanaisone ®	0.08150000
13.	98-53-3	Cyclohexanone, 4-(1,1-dimethylethyl)-	Patchi	0.07780000
14.	35854-86-5	6-Nonen-1-ol, (6Z)-	cis-6-None-1-ol	0.07770000
15.	5331-14-6	Benzene, (2-butoxyethyl)-	Butyl phenethyl ether	0.07760000
16.	80-57-9	Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-	Verbenone	0.07730000
17.	22471-55-2	Cyclohexanecarboxylic acid, 2,2,6-trimethyl-, ethyl ester, (1R,6S)-rel-	Thesaron	0.07670000
18.	60-12-8	Benzeneethanol	Phenethyl alcohol	0.07410000
19.	106-26-3	2,6-Octadienal, 3,7-dimethyl-, (2Z)-	Neral	0.07120000
20.	5392-40-5	2,6-Octadienal, 3,7-dimethyl-	Citral	0.07120000
21.	89-48-5	Cyclohexanol, 5-methyl-2-(1-methylethyl)-, 1-acetate, (1R,2S,5R)-rel-	Menthyl Acetate	0.07070000
22.	119-36-8	Benzoic acid, 2-hydroxy-, methyl ester	Methyl salicylate	0.07000000
23.	4180-23-8	Benzene, 1-methoxy-4-(1E)-1-propen-1-yl-	Anethol	0.06870000
24.	7549-37-3	2,6-Octadiene, 1,1-dimethoxy-3,7-dimethyl-	Citral Dimethyl Acetal	0.06780000
25.	25225-08-5	Cyclohexanemethanol, α , 3,3-trimethyl-, 1-formate	Aphermate	0.06780000
26.	3913-81-3	2-Decenal, (2E)-	2-Decene-1-al	0.06740000
27.	15373-31-6	3-Cyclopentene-1-acetonitrile, 2,2,3-trimethyl-	Cantryl ®	0.06700000
28.	6485-40-1	2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (5R)-	Laevo carvone	0.06560000
29.	16587-71-6	Cyclohexanone, 4-(1,1-dimethylpropyl)-	Orivone	0.06490000
30.	62406-73-9	6,10-Dioxaspiro[4.5]decane, 8,8-dimethyl-7-(1-methylethyl)-	Opalal CI	0.06290000
31.	3720-16-9	2-Cyclohexen-1-one, 3-methyl-5-propyl-	Livescone	0.06270000
32.	13816-33-6	Benzonitrile, 4-(1-methylethyl)-	Cumin Nitrile	0.06230000
33.	67019-89-0	2,6-Nonadienenitrile	Violet Nitrile	0.06200000
34.	53398-85-9	Butanoic acid, 2-methyl-, (3Z)-3-hexen-1-yl ester	cis-3-Hexenyl Alpha Methyl Butyrate	0.06130000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
35.	208041-98-9	n/a	Jasmonitrile	0.05920000
36.	16510-27-3	Benzene, 1-(cyclopropylmethyl)-4-methoxy-	Toscanol	0.05870000
37.	111-80-8	2-Nonynoic acid, methyl ester	Methyl Octine Carbonate	0.05680000
38.	103-45-7	Acetic acid, 2-phenylethyl ester	Phenyl Ethyl Acetate	0.05640000
39.	2550-26-7	2-Butanone, 4-phenyl-	Benzyl Acetone	0.05570000
40.	13491-79-7	Cyclohexanol, 2-(1,1-dimethylethyl)-	Verdol	0.05430000
41.	7786-44-9	2,6-Nonadien-1-ol	2,6-Nonadien-1-ol	0.05370000
42.	103-28-6	Propanoic acid, 2-methyl-, phenylmethyl ester	Benzyl Iso Butyrate	0.05130000
43.	104-62-1	Formic acid, 2-phenylethyl ester	Phenyl Ethyl Formate	0.05050000
44.	28462-85-3	Bicyclo[2.2.1]heptan-2-ol, 1,2,3,3-tetramethyl-, (1R, 2R,4S)-rel-	Humus Ether	0.04870000
45.	122-03-2	Benzaldehyde, 4-(1-methylethyl)-	Cuminic Aldehyde	0.04820000
46.	358331-95-0	2,5-Octadien-4-one, 5,6,7-trimethyl-, (2E)-	Pomarose	0.04810000
47.	562-74-3	3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-	Terpinenol-4	0.04780000
48.	68527-77-5	3-Cyclohexene-1-methanol, 2,4,6-trimethyl-	Isocyclogeraniol	0.04640000
49.	35852-46-1	Pentanoic acid, (3Z)-3-hexen-1-yl ester	Cis-3-Hexenyl Valerate	0.04580000
50.	2756-56-1	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, 2-propanoate, (1R,2R,4R)-rel-	Iso Bornyl Propionate	0.04540000
51.	14374-92-6	Benzene, 1-methyl-4-(1-methylethyl)-2-(1-propen-1-yl)-	Verdoracine	0.04460000
52.	6784-13-0	3-Cyclohexene-1-propanal, β ,4-dimethyl-	Limonenal	0.04380000
53.	8000-41-7	2-(4-methyl-1-cyclohex-3-enyl)propan-2-ol	Alpha Terpineol	0.04320000
54.	41884-28-0	1-Hexanol, 5-methyl-2-(1-methylethyl)-, (2R)-	Tetrahydro Lavandulol	0.04230000
55.	22457-23-4	3-Heptanone, 5-methyl-, oxime	Stemone ®	0.04140000
56.	104-50-7	2(3H)-Furanone, 5-butyldihydro-	Gamma Octalactone	0.04080000
57.	143-08-8	1-Nonanol	Nonyl Alcohol	0.04070000
58.	3613-30-7	Octanal, 7-methoxy-3,7-dimethyl-	Methoxycitronellal	0.04020000
59.	67634-00-8	Acetic acid, 2-(3-methylbutoxy)-, 2-propen-1-yl ester	Allyl Amyl Glycolate	0.04000000
60.	464-45-9	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1S,2R, 4S)-	1-Borneol	0.03980000
61.	124-76-5	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1R,2R, 4R)-rel-	1,7,7-Trimethyl-Bicyclo-1,2,2-Heptanol-2	0.03980000
62.	67874-72-0	Cyclohexanol, 2-(1,1-dimethylpropyl)-, 1-acetate	Coniferan	0.03980000
63.	80-26-2	3-Cyclohexene-1-methanol, α , α ,4-trimethyl-, 1-acetate	Terpinyl Acetate	0.03920000
64.	498-81-7	Cyclohexanemethanol, α , α ,4-trimethyl-	Dihydro Terpineol	0.03920000
65.	112-45-8	10-Undecenal	Undecylenic aldehyde	0.03900000
66.	35044-57-6	2,4-Cyclohexadiene-1-carboxylic acid, 2,6,6-trimethyl-, ethyl ester	Ethyl Safranate	0.03880000
67.	106-21-8	1-Octanol, 3,7-dimethyl-	Dimethyl Octanol	0.03860000
68.	84560-00-9	Cyclopentanol, 2-pentyl-	Cyclopentol	0.03790000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
69.	82461-14-1	Furan, tetrahydro-2,4-dimethyl-4-phenyl-	Rhubafuran ®	0.03780000
70.	56011-02-0	Benzene, [2-(3-methylbutoxy)ethyl]-	Phenyl Ethyl Isoamyl Ether	0.03690000
71.	103-37-7	Butanoic acid, phenylmethyl ester	Benzyl Butyrate	0.03660000
72.	6378-65-0	Hexyl hexanoate	Hexyl hexanoate	0.03490000
73.	118-61-6	Benzoic acid, 2-hydroxy-, ethyl ester	Ethyl salicylate	0.03480000
74.	98-52-2	Cyclohexanol, 4-(1,1-dimethylethyl)-	Patchon	0.03480000
75.	115-99-1	1,6-Octadien-3-ol, 3,7-dimethyl-, 3-formate	Linalyl Formate	0.03440000
76.	112-54-9	Dodecanal	Lauric Aldehyde	0.03440000
77.	53046-97-2	3,6-Nonadien-1-ol, (3Z, 6Z)-	3,6 Nonadien-1-ol	0.03360000
78.	76649-25-7	3,6-Nonadien-1-ol	3,6-Nonadien-1-ol	0.03360000
79.	141-25-3	3,7-Dimethyloct-6-en-1-ol	Rhodinol	0.03290000
80.	1975-78-6	Decanenitrile	Decanonitrile	0.03250000
81.	2216-51-5	Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1R,2S, 5R)-	L-Menthol	0.03230000
82.	3658-77-3	4-hydroxy-2,5-dimethylfuran-3-one	Pineapple Ketone	0.03200000
83.	103-93-5	Propanoic acid, 2-methyl-, 4-methylphenyl ester	Para Cresyl iso-Butyrate	0.03120000
84.	24717-86-0	Propanoic acid, 2-methyl-, (1R,2S,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, rel-	Abierate	0.03110000
85.	67845-46-9	Acetaldehyde, 2-(4-methylphenoxy)-	Aldehyde XI	0.03090000
86.	67883-79-8	2-Butenoic acid, 2-methyl-, (3Z)-3-hexen-1-yl ester, (2E)-	Cis-3-Hexenyl Tiglate	0.03060000
87.	33885-51-7	Bicyclo[3.1.1]hept-2-ene-2-propanal, 6,6-dimethyl-	Pino Acetaldehyde	0.03040000
88.	105-85-1	6-Octen-1-ol, 3,7-dimethyl-, 1-formate	Citronellyl Formate	0.03000000
89.	70214-77-6	2-Nonanol, 6,8-dimethyl-	Nonadyl	0.03010000
90.	215231-33-7	Cyclohexanol, 1-methyl-3-(2-methylpropyl)-	Rositol	0.02990000
91.	120-72-9	1H-Indole	Indole	0.02980000
92.	2463-77-6	2-Undecenal	2-Undecene-1-al	0.02970000
93.	675-09-2	2H-Pyran-2-one, 4,6-dimethyl-	Levistamel	0.02940000
94.	98-55-5	3-Cyclohexene-1-methanol, $\alpha,\alpha,4$ -trimethyl-	Alpha-Terpineol	0.02830000
95.	81786-73-4	3-Hepten-2-one, 3,4,5,6,6-pentamethyl-, (3Z)-	Koavone	0.02750000
96.	122-97-4	Benzenepropanol	Phenyl Propyl Alcohol	0.02710000
97.	39212-23-2	2(3H)-Furanone, 5-butylidihydro-4-methyl-	Methyl Octalactone	0.02700000
98.	53767-93-4	7-Octen-2-ol, 2,6-dimethyl-, 2-acetate	Dihydro Terpinyl Acetate	0.02690000
99.	35044-59-8	1,3-Cyclohexadiene-1-carboxylic acid, 2,6,6-trimethyl-, ethyl ester	Ethyl Safranate	0.02660000
100.	104-55-2	2-Propenal, 3-phenyl-	Cinnamic Aldehyde	0.02650000
101.	144-39-8	1,6-Octadien-3-ol, 3,7-dimethyl-, 3-propanoate	Linalyl Propionate	0.02630000
102.	61931-80-4	1,6-Nonadien-3-ol, 3,7-dimethyl-, 3-acetate	3,7-Dimethyl-1,6-nonadien-3-yl acetate	0.02630000
103.	102-13-6	Benzeneacetic acid, 2-methylpropyl ester	Iso Butyl Phenylacetate	0.02630000
104.	65443-14-3	Cyclopentanone, 2,2,5-trimethyl-5-pentyl-	Veloutone	0.02610000
105.	141-12-8	2,6-Octadien-1-ol, 3,7-dimethyl-, 1-acetate, (2Z)-	Neryl Acetate	0.02560000
106.	105-87-3	2,6-Octadien-1-ol, 3,7-dimethyl-, 1-acetate, (2E)-	Geranyl acetate	0.02560000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
107.	68141-17-3	Undecane, 1,1-dimethoxy-2-methyl-	Methyl Nonyl Acetaldehyde Dimethyl Acetal	0.02550000
108.	2206-94-2	Benzenemethanol, α -methylene-, 1-acetate	Indocolore	0.02550000
109.	10528-67-3	Cyclohexanepropanol, α -methyl-	Cyclohexylmagnol	0.02550000
110.	123-11-5	Benzaldehyde, 4-methoxy-	Anisic Aldehyde	0.02490000
111.	57576-09-7	Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, 1-acetate, (1R,2S,5R)-	Iso Pulegol Acetate	0.02480000
112.	51566-62-2	6-Octenenitrile, 3,7-dimethyl-	Citronellyl Nitrile	0.02470000
113.	60335-71-9	2H-Pyran, 3,6-dihydro-4-methyl-2-phenyl-	Rosyrane Super	0.02470000
114.	30385-25-2	6-Octen-2-ol, 2,6-dimethyl-	Dihydromyrcenol	0.02440000
115.	101-84-8	Benzene, 1,1'-oxybis-	Diphenyl Oxide	0.02230000
116.	136-60-7	Benzoic acid, butyl ester	Butyl Benzoate	0.02170000
117.	93939-86-7	5,8-Methano-2H-1-benzopyran, 6-ethylideneoctahydro-	Rhuboflor	0.02120000
118.	83926-73-2	Cyclohexanepropanol, α,α -dimethyl-	Coranol	0.02100000
119.	125109-85-5	Benzenepropanal, β -methyl-3-(1-methylethyl)-	Florhydral	0.02070000
120.	104-21-2	Benzenemethanol, 4-methoxy-, 1-acetate	Anisyl Acetate	0.02050000
121.	1365-19-1	2-Furanmethanol, 5-ethenyltetrahydro- $\alpha,\alpha,5$ -trimethyl-	Linalool Oxide	0.02050000
122.	137-03-1	Cyclopentanone, 2-heptyl-	Frutalone	0.02040000
123.	2563-07-7	Phenol, 2-ethoxy-4-methyl-	Ultravanil	0.02030000
124.	1128-08-1	2-Cyclopenten-1-one, 3-methyl-2-pentyl-	Dihydrojasnone	0.02020000
125.	7493-57-4	Benzene, [2-(1-propoxyethoxy)ethyl]-	Acetaldehyde	0.01990000
126.	141-25-3	7-Octen-1-ol, 3,7-dimethyl-	Rhodinol	0.01970000
127.	216970-21-7	Bicyclo[4.3.1]decane, 3-methoxy-7,7-dimethyl-10-methylene-	3-Methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane	0.01960000
128.	319002-92-1	Propanoic acid, 2-(1,1-dimethylpropoxy)-, propyl ester, (2S)-	Sclareolate ®	0.01960000
129.	85-91-6	Benzoic acid, 2-(methylamino)-, methyl ester	Dimethyl anthranilate	0.01930000
130.	13828-37-0	Cyclohexanemethanol, 4-(1-methylethyl)-, cis-	Mayol	0.01920000
131.	26330-65-4	(E)-6-ethyl-3-methyloct-6-en-1-ol	Super Muguet	0.01850000
132.	7540-51-4	6-Octen-1-ol, 3,7-dimethyl-, (3S)-	L-Citronellol	0.01830000
133.	106-22-9	6-Octen-1-ol, 3,7-dimethyl-	Citronellol	0.01830000
134.	543-39-5	7-Octen-2-ol, 2-methyl-6-methylene-	Myrcenol	0.01820000
135.	7775-00-0	Benzenepropanal, 4-(1-methylethyl)-	Cyclemax	0.01820000
136.	18479-54-4	4,6-Octadien-3-ol, 3,7-dimethyl-	Muguol	0.01800000
137.	29214-60-6	Octanoic acid, 2-acetyl-, ethyl ester	Gelsone	0.01790000
138.	1209-61-6	5-Oxatricyclo[8.2.0.0.4,6]dodecane, 4,9,12,12-tetramethyl-	Tobacarol	0.01730000
139.	57934-97-1	2-Cyclohexene-1-carboxylic acid, 2-ethyl-6,6-dimethyl-, ethyl ester	Givescone	0.01710000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
140.	14901-07-6	3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (3E)-	Beta-Ionone	0.01690000
141.	64001-15-6	4,7-Methano-1H-inden-5-ol, octahydro-, 5-acetate	Dihydro Cyclacet	0.01630000
142.	95-41-0	2-Cyclopenten-1-one, 2-hexyl-	Iso Jasmone T	0.01600000
143.	134-20-3	Benzoic acid, 2-amino-, methyl ester	Methyl Anthranilate	0.01580000
144.	100-06-1	Ethanone, 1-(4-methoxyphenyl)-	Para Methoxy Acetophenone	0.01550000
145.	105-86-2	2,6-Octadien-1-ol, 3,7-dimethyl-, 1-formate, (2E)-	Geranyl Formate	0.01540000
146.	154171-77-4	Spiro[1,3-dioxolane-2, 8'(5'H)-[2H-2,4a]methanonaphthalene], hexahydro-1',1',5',5'-tetramethyl-, (2'S,4'aS, 8'aS)-(9CI)	Ysamber K ®	0.01470000
147.	154171-76-3	Spiro[1,3-dioxolane-2, 8'(5'H)-[2H-2,4a]methanonaphthalene], hexahydro-1',1',5',5'-tetramethyl-	Ysamber	0.01470000
148.	127-41-3	3-Buten-2-one, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (3E)-	Alpha-Ionone	0.01440000
149.	151-05-3	Benzenethanol, α,α -dimethyl-, 1-acetate	Dimethyl Benzyl Carbonyl Acetate	0.01390000
150.	2500-83-6	4,7-Methano-1H-inden-5-ol, 3a,4,5,6,7,7a-hexahydro-, 5-acetate	Flor Acetate	0.01370000
151.	150-84-5	6-Octen-1-ol, 3,7-dimethyl-, 1-acetate	Citronellyl acetate	0.01370000
152.	30310-41-9	2H-Pyran, tetrahydro-2-methyl-4-methylene-6-phenyl-	Pelargene	0.01350000
153.	68845-00-1	Bicyclo[3.3.1]nonane, 2-ethoxy-2,6,6-trimethyl-9-methylene-	Boisiris	0.01350000
154.	106-24-1	2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)-	Geraniol	0.01330000
155.	106-25-2	2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)-	Nerol	0.01330000
156.	75975-83-6	Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-, (1R,4E,9S)-	Vetyvenal	0.01280000
157.	19870-74-7	1H-3a,7-Methanoazulene, octahydro-6-methoxy-3,6,8,8-tetramethyl-, (3R,3aS, 6S,7R,8aS)-	Cedryl methyl ether	0.01280000
158.	87-44-5	Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-, (1R,4E,9S)-	Caryophyllene Extra	0.01280000
159.	54440-17-4	1H-Inden-1-one, 2,3-dihydro-2,3,3-trimethyl-	Safraleine	0.01260000
160.	110-98-5	2-Propanol, 1,1'-oxybis-	Dipropylene Glycol	0.01250000
161.	41890-92-0	2-Octanol, 7-methoxy-3,7-dimethyl-	Osyrol ®	0.01250000
162.	71077-31-1	4,9-Decadienal, 4,8-dimethyl-	Floral Super	0.01230000
163.	65-85-0	Benzoic Acid	Benzoic Acid	0.01220000
164.	61444-38-0	3-Hexenoic acid, (3Z)-3-hexen-1-yl ester, (3Z)-	cis-3-hexenyl-cis-3-hexenoate	0.01220000
165.	116044-44-1	Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 3-(1-methylethyl)-, ethyl ester, (1R,2S,3S,4S)-rel-	Herbanate	0.01210000
166.	104-54-1	2-Propen-1-ol, 3-phenyl-	Cinnamic Alcohol	0.01170000
167.	78-35-3	Propanoic acid, 2-methyl-, 1-ethenyl-1,5-dimethyl-4-hexen-1-yl ester	Linalyl Isobutyrate	0.01170000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
168.	23495-12-7	Ethanol, 2-phenoxy-, 1-propanoate	Phenoxy Ethyl Propionate	0.01130000
169.	103-26-4	2-Propenoic acid, 3-phenyl-, methyl ester	Methyl Cinnamate	0.01120000
170.	67634-14-4	Benzenepropanal, 2-ethyl- α,α -dimethyl-	Florazon (ortho-isomer)	0.01110000
171.	5454-19-3	Propanoic acid, decyl ester	N-Decyl Propionate	0.01100000
172.	93-16-3	Benzene, 1,2-dimethoxy-4-(1-propen-1-yl)-	Methyl Iso Eugenol	0.01100000
173.	81782-77-6	3-Decen-5-ol, 4-methyl-	4-Methyl-3-decen-5-ol	0.01070000
174.	67845-30-1	Bicyclo[2.2.2]oct-5-ene-2-carboxaldehyde, 6-methyl-8-(1-methylethyl)-	Maceal	0.01060000
175.	97-53-0	Phenol, 2-methoxy-4-(2-propen-1-yl)-	Eugenol	0.01040000
176.	120-57-0	1,3-Benzodioxole-5-carboxaldehyde	Heliotropin	0.01040000
177.	93-04-9	Naphthalene, 2-methoxy-	Beta Naphthyl Methyl Ether Extra 99	0.01040000
178.	4826-62-4	2-Dodecenal	2 Dodecene-1-al	0.01020000
179.	20407-84-5	2-Dodecenal, (2E)-	Aldehyde Mandarin	0.01020000
180.	5462-06-6	Benzenepropanal, 4-methoxy- α -methyl-	Canthoxal	0.01020000
181.	94-60-0	1,4-Cyclohexanedicarboxylic acid, 1,4-dimethyl ester	Dimethyl 1,4-cyclohexanedicarboxylate	0.01020000
182.	57378-68-4	2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	delta-Damascone	0.01020000
183.	17283-81-7	2-Butanone, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	Dihydro Beta Ionone	0.01020000
184.	1885-38-7	2-Propenenitrile, 3-phenyl-, (2E)-	Cinnamalva	0.01010000
185.	103-48-0	Propanoic acid, 2-methyl-, 2-phenylethyl ester	Phenyl Ethyl Iso Butyrate	0.00994000
186.	488-10-8	2-Cyclopenten-1-one, 3-methyl-2-(2Z)-2-penten-1-yl-	Cis Jasmone	0.00982000
187.	7492-67-3	Acetaldehyde, 2-[(3,7-dimethyl-6-octen-1-yl)oxy]-	Citronellyloxyacetaldehyde	0.00967000
188.	68683-20-5	1-Cyclohexene-1-ethanol, 4-(1-methylethyl)-, 1-formate	Iso Bergamate	0.00965000
189.	3025-30-7	2,4-Decadienoic acid, ethyl ester, (2E,4Z)-	Ethyl 2,4-Decadienoate	0.00954000
190.	103-54-8	2-Propen-1-ol, 3-phenyl-, 1-acetate	Cinnamyl Acetate	0.00940000
191.	18127-01-0	Benzenepropanal, 4-(1,1-dimethylethyl)-	Bourgeonal	0.00934000
192.	3738-00-9	Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-	Ambrox ® or Cetalox ® or Synambran	0.00934000
193.	51519-65-4	1,4-Methanonaphthalen-5(1H)-one, 4,4a,6,7,8,8a-hexahydro-	Tamisone	0.00932000
194.	148-05-1	Dodecanoic acid, 12-hydroxy-, λ -lactone (6CI, 7CI); 1,12-	Dodecalactone	0.00931000
195.	6790-58-5	(3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyl-2,4,5,5a,7,8,9,9b-octahydro-1H-benzole[e][1]benzofuran	Ambrotonat ® or Ambroxan ®	0.00930000
196.	86-26-0	1,1'-Biphenyl, 2-methoxy-	Methyl Diphenyl Ether	0.00928000
197.	68738-94-3	2-Naphthalenecarboxaldehyde, octahydro-8,8-dimethyl	Cyclomyral ®	0.00920000
198.	2705-87-5	Cyclohexanepropanoic acid, 2-propen-1-yl ester	Allyl Cyclohexane Propionate	0.00925000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
199.	7011-83-8	2(3H)-Furanone, 5-hexyldihydro-5-methyl-	Lactojasmone ®	0.00885000
200.	61792-11-8	2,6-Nonadienenitrile, 3,7-dimethyl-	Lemonile ®	0.00884000
201.	692-86-4	10-Undecenoic acid, ethyl ester	Ethyl Undecylenate	0.00882000
202.	103-95-7	Benzenepropanal, α -methyl-4-(1-methylethyl)-	Cymal	0.00881000
203.	13019-22-2	9-Decen-1-ol	Rosalva	0.00879000
204.	94201-19-1	1-Oxaspiro[4.5]decan-2-one, 8-methyl-	Methyl Laitone 10% TEC	0.00872000
205.	104-61-0	2(3H)-Furanone, dihydro-5-pentyl-	γ -Nonalactone	0.00858000
206.	706-14-9	2(3H)-Furanone, 5-hexyldihydro-	γ -Decalactone	0.00852000
207.	24720-09-0	2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (2E)-	α -Damascone	0.00830000
208.	39872-57-6	2-Buten-1-one, 1-(2,4,4-trimethyl-2-cyclohexen-1-yl)-, (2E)-	Isodamascone	0.00830000
209.	705-86-2	2H-Pyran-2-one, tetrahydro-6-pentyl-	Decalactone	0.00825000
210.	67634-15-5	Benzenepropanal, 4-ethyl- α,α -dimethyl-	Floralozone	0.00808000
211.	40527-42-2	1,3-Benzodioxole, 5-(diethoxymethyl)-	Heliotropin Diethyl Acetal	0.00796000
212.	56973-85-4	4-Penten-1-one, 1-(5,5-dimethyl-1-cyclohexen-1-yl)-	Neobutenone α	0.00763000
213.	128-51-8	Bicyclo[3.1.1]hept-2-ene-2-ethanol, 6,6-dimethyl-, 2-acetate	Nopyl Acetate	0.00751000
214.	103-36-6	2-Propenoic acid, 3-phenyl-, ethyl ester	Ethyl Cinnamate	0.00729000
215.	5182-36-5	1,3-Dioxane, 2,4,6-trimethyl-4-phenyl-	Floropal ®	0.00709000
216.	42604-12-6	Cyclododecane, (methoxymethoxy)-	Boisambrene	0.00686000
217.	33885-52-8	Bicyclo[3.1.1]hept-2-ene-2-propanal, $\alpha,\alpha,6,6$ -tetramethyl-	Piny Iso Butyrate Alpha	0.00685000
218.	92015-65-1	2(3H)-Benzofuranone, hexahydro-3,6-dimethyl-	Natactone	0.00680000
219.	63767-86-2	Cyclohexanemethanol, α -methyl-4-(1-methylethyl)-	Mugetanol	0.00678000
220.	3288-99-1	Benzenecetonitrile, 4-(1,1-dimethylethyl)-	Marenil CI	0.00665000
221.	35044-68-9	2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	beta-Damascone	0.00655000
222.	41724-19-0	1,4-Methanonaphthalen-6(2H)-one, octahydro-7-methyl-	Plicatone	0.00652000
223.	75147-23-8	Bicyclo[3.2.1]octan-8-one, 1,5-dimethyl-, oxime	Buccoxime ®	0.00647000
224.	25634-93-9	2-Methyl-5-phenylpentan-1-ol	Rosaphen ® 600064	0.00637000
225.	55066-48-3	3-Methyl-5-phenylpentanol	Phenyl Hexanol	0.00637000
226.	495-62-5	Cyclohexene, 4-(1,5-dimethyl-4-hexen-1-ylidene)-1-methyl-	Bisabolene	0.00630000
227.	2785-87-7	Phenol, 2-methoxy-4-propyl-	Dihydro Eugenol	0.00624000
228.	87-19-4	Benzoic acid, 2-hydroxy-, 2-methylpropyl ester	Iso Butyl Salicylate	0.00613000
229.	4430-31-3	2H-1-Benzopyran-2-one, octahydro-	Octahydro Coumarin	0.00586000
230.	38462-22-5	Cyclohexanone, 2-(1-mercapto-1-methylethyl)-5-methyl-	Ringonol 50 TEC	0.00585000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
231.	77-83-8	2-Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester	Ethyl Methyl Phenyl Glycidate	0.00571000
232.	37677-14-8	3-Cyclohexene-1-carboxaldehyde, 4-(4-methyl-3-penten-1-yl)-	Iso Hexenyl Cyclohexenyl Carboxaldehyde	0.00565000
233.	103-60-6	Propanoic acid, 2-methyl-, 2-phenoxyethyl ester	Phenoxy Ethyl iso-Butyrate	0.00562000
234.	18096-62-3	Indeno[1,2-d]-1,3-dioxin, 4,4a,5,9b-tetrahydro-	Indoflor®	0.00557000
235.	63500-71-0	2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	Florosa Q/Florol	0.00557000
236.	65405-84-7	Cyclohexanecarboxaldehyde, 6,6-tetramethyl-	Cetonal®	0.00533000
237.	171102-41-3	4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-8,8-dimethyl-, 6-acetate	Flor Acetate	0.00530000
238.	10339-55-6	1,6-Nonadien-3-ol, 3,7-dimethyl-	Ethyl linalool	0.00520000
239.	23267-57-4	3-Buten-2-one, 4-(2,2,6-trimethyl-7-oxabicyclo[4.1.0]hept-1-yl)-	Ionone Epoxide Beta	0.00520000
240.	97-54-1	Phenol, 2-methoxy-4-(1-propen-1-yl)-	Isoeugenol	0.00519000
241.	67663-01-8	2(3H)-Furanone, 5-hexyldihydro-4-methyl-	Peacholide	0.00512000
242.	33885-52-8	Bicyclo[3.1.1]hept-2-ene-2-propanal, $\alpha,\alpha,6,6$ -tetramethyl-	Piny Iso Butyrate Alpha	0.00512000
243.	23696-85-7	2-Buten-1-one, 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-	Damascenone	0.00503000
244.	80-71-7	2-Cyclopenten-1-one, 2-hydroxy-3-methyl-	Maple Lactone	0.00484000
245.	67662-96-8	Propanoic acid, 2,2-dimethyl-, 2-phenylethyl ester	Pivarose Q	0.00484000
246.	2437-25-4	Dodecanenitrile	Clonal	0.00480000
247.	141-14-0	6-Octen-1-ol, 3,7-dimethyl-, 1-propanoate	Citronellyl Propionate	0.00469000
248.	54992-90-4	3-Buten-2-one, 4-(2,2,3,6-tetramethylcyclohexyl)-	Myrrhone	0.00460000
249.	55066-49-4	Benzenepentanal, β -methyl-	Mefranal	0.00455000
250.	7493-74-5	Acetic acid, 2-phenoxy-, 2-propen-1-yl ester	Allyl Phenoxy Acetate	0.00454000
251.	80-54-6	Benzenepropanal, 4-(1,1-dimethylethyl)- α -methyl-	Lilial®	0.00444000
252.	86803-90-9	4,7-Methano-1H-indene-2-carboxaldehyde, octahydro-5-methoxy-	Scentenal®	0.00439000
253.	68991-97-9	2-Naphthalenecarboxaldehyde, 1,2,3,4,5,6,7,8-octahydro-8,8-dimethyl-	Melafleur	0.00436000
254.	18871-14-2	Pentitol, 1,5-anhydro-2,4-dideoxy-2-pentyl-, 3-acetate	Jasmal	0.00434000
255.	58567-11-6	Cyclododecane, (ethoxymethoxy)-	Boisambren Forte	0.00433000
256.	94400-98-3	Naphth[2,3-b]oxirene, 1a,2,3,4,5,6,7,7a-octahydro-1a,3,3,4,6,6-hexamethyl-, (1aR,4S,7aS)-rel-	Molaxone	0.00425000
257.	79-69-6	3-Buten-2-one, 4-(2,5,6,6-tetramethyl-2-cyclohexen-1-yl)-	alpha-Irone	0.00419000
258.	65442-31-1	Quinoline, 6-(1-methylpropyl)-	Iso Butyl Quinoline	0.00408000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
CAS No.	Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
259.	87731-18-8	Carbonic acid, 4-cycloocten-1-yl methyl ester	Violiff	0.00401000
260.	173445-65-3	1H-Indene-5-propanal, 2,3-dihydro-3,3-dimethyl-	Hivernal (A-isomer)	0.00392000
261.	23911-56-0	Ethanone, 1-(3-methyl-2-benzofuranyl)-	Nerolione	0.00383000
262.	52474-60-9	3-Cyclohexene-1-carboxaldehyde, 1-methyl-3-(4-methyl-3-penten-1-yl)-	Precyclemone B	0.00381000
263.	139539-66-5	6-Oxabicyclo[3.2.1]octane, 5-methyl-1-(2,2,3-trimethyl-3-cyclopenten-1-yl)-	Cassifix	0.00381000
264.	80858-47-5	Benzene, [2-(cyclohexyloxy)ethyl]-	Phenafleur	0.00380000
265.	32764-98-0	2H-Pyran-2-one, tetrahydro-6-(3-penten-1-yl)-	Jasmolactone	0.00355000
266.	78417-28-4	2,4,7-Decatrienoic acid ethyl ester	Ethyl 2,4,7-decatrienoate	0.00353000
267.	140-26-1	Butanoic acid, 3-methyl-, 2-phenylethyl ester	Beta Phenyl Ethyl Isovalerate	0.00347000
268.	105-90-8	2,6-Octadien-1-ol, 3,7-dimethyl-, 1-propanoate, (2E)-	Geranyl Propionate	0.003360000
269.	41816-03-9	Spiro[1,4-methanonaphthalene-2(1H),2'-oxirane], 3,4,4a,5,8,8a-hexahydro-3',7'-dimethyl-	Rhubofix ®	0.00332000
270.	7070-15-7	Ethanol, 2-[[[(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl]oxy]-, rel-	Arbanol	0.00326000
271.	93-29-8	Phenol, 2-methoxy-4-(1-propen-1-yl)-, 1-acetate	Iso Eugenol Acetate	0.00324000
272.	476332-65-7	2H-Indeno[4,5-b]furan, decahydro-2,2,6,6,7,8,8-heptamethyl-	Amber Xtreme Compound 1	0.00323000
273.	68901-15-5	Acetic acid, 2-(cyclohexyloxy)-, 2-propen-1-yl ester	Cyclogalbanate	0.00323000
274.	107-75-5	Octanal, 7-hydroxy-3,7-dimethyl-	Hydroxycitronellal	0.00318000
275.	68611-23-4	Naphtho[2,1-b]furan, 9b-ethyldecahydro-3a,7,7-trimethyl-	Grisalva	0.00305000
276.	313973-37-4	1,6-Heptadien-3-one, 2-cyclohexyl-	Pharaone	0.00298000
277.	137-00-8	5-Thiazoleethanol, 4-methyl-	Sulfuroil	0.00297000
278.	7779-30-8	1-Penten-3-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	Methyl Ionone	0.00286000
279.	127-51-5	3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	Isoraldeine Pure	0.00282000
280.	72903-27-6	1,4-Cyclohexanedicarboxylic acid, 1,4-diethyl ester	Fructalate™	0.00274000
281.	7388-22-9	3-Buten-2-one, 4-(2,2-dimethyl-6-methylenecyclohexyl)-3-methyl-	Ionone Gamma Methyl	0.00272000
282.	104-67-6	2(3H)-Furanone, 5-heptyldihydro-	gamma-Undecalactone (racemic)	0.00271000
283.	1205-17-0	1,3-Benzodioxole-5-propanal, α-methyl-	Helional	0.00270000
284.	33704-61-9	4H-Inden-4-one, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-	Cashmeran	0.00269000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
285.	36306-87-3	Cyclohexanone, 4-(1-ethoxyethenyl)-3,3,5,5-tetramethyl-	Kephalis	0.00269000
286.	97384-48-0	Benzenepropanenitrile, α -ethenyl- α -methyl-	Citrowanil ® B	0.00265000
287.	141-13-9	9-Undecenal, 2,6,10-trimethyl-	Adoxal	0.00257000
288.	2110-18-1	Pyridine, 2-(3-phenylpropyl)-	Corps Racine VS	0.00257000
289.	27606-09-3	Indeno[1,2-d]-1,3-dioxin, 4,4a,5,9b-tetrahydro-2,4-dimethyl-	Magnolan	0.00251000
290.	67634-20-2	Propanoic acid, 2-methyl-, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5-yl ester	Cyclabute	0.00244000
291.	65405-72-3	1-Naphthalenol, 1,2,3,4,4a,7,8,8a-octahydro-2,4a,5,8a-tetramethyl-, 1-formate	Oxyoctaline Formate	0.00236000
292.	122-40-7	Heptanal, 2-(phenylmethylene)-	Amyl Cinnamic Aldehyde	0.00233000
293.	103694-68-4	Benzenepropanol, β , β ,3-trimethyl-	Majantol ®	0.00224000
294.	13215-88-8	2-Cyclohexen-1-one, 4-(2-buten-1-ylidene)-3,5,5-trimethyl-	Tabanone Coeur	0.00223000
295.	25152-85-6	3-Hexen-1-ol, 1-benzoate, (3Z)-	Cis-3-Hexenyl Benzoate	0.00203000
296.	406488-30-0	2-Ethyl-N-methyl-N-(m-tolyl)butanamide	Paradisamide	0.00200000
297.	121-33-5	Benzaldehyde, 4-hydroxy-3-methoxy-	Vanillin	0.00194000
298.	77-54-3	1H-3a,7-Methanoazulen-6-ol, octahydro-3,6,8,8-tetramethyl-, 6-acetate, (3R,3aS,6R,7R,8aS)-	Cedac	0.00192000
299.	76842-49-4	4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-8,8-dimethyl-, 6-propanoate	Frutene	0.00184000
300.	121-39-1	2-Oxiranecarboxylic acid, 3-phenyl-, ethyl ester	Ethyl Phenyl Glycidate	0.00184000
301.	211299-54-6	4H-4a,9-Methanoazuleno[5,6-d]-1,3-dioxole, octahydro-2,2,5,8,8,9a-hexamethyl-, (4aR,5R,7aS,9R)-	Ambrocenide ®	0.00182000
302.	285977-85-7	(2,5-Dimethyl-1,3-dihydroinden-2-yl)methanol	Lilyflore	0.00180000
303.	10094-34-5	Butanoic acid, 1,1-dimethyl-2-phenylethyl ester	Dimethyl Benzyl Carbonyl Butyrate	0.00168000
304.	40785-62-4	Cyclododeca[c]furan, 1,3,3a,4,5,6,7,8,9,10,11,13a-dodecahydro-	Muscogene	0.00163000
305.	75490-39-0	Benzenebutanenitrile, α , α , γ -trimethyl-	Khusinil	0.00162000
306.	55418-52-5	2-Butanone, 4-(1,3-benzodioxol-5-yl)-	Dulcinyll	0.00161000
307.	3943-74-6	Benzoic acid, 4-hydroxy-3-methoxy-, methyl ester	Camaline	0.00157000
308.	72089-08-8	3-Cyclopentene-1-butanol, β ,2,2,3-tetramethyl-2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)butanol	Brahmanol ®	0.00154000
309.	3155-71-3	2-Butenal, 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	Boronal	0.00147000

TABLE 2-continued

Moderate Volatile Fragrance Materials				
CAS No.	Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
310.	2050-08-0	Benzoic acid, 2-hydroxy-, pentyl ester	Amyl Salicylate	0.00144000
311.	41199-20-6	2-Naphthalenol, decahydro-2,5,5-trimethyl-	Ambrinol	0.00140000
312.	12262-03-2	ndecanoic acid, 3-methylbutyl ester	Iso Amyl Undecylenate	0.00140000
313.	107-74-4	1,7-Octanediol, 3,7-dimethyl-	Hydroxyol	0.00139000
314.	91-64-5	2H-1-Benzopyran-2-one	Coumarin	0.00130000
315.	68901-32-6	1,3-Dioxolane, 2-[6-methyl-8-(1-methylethyl)bicyclo[2.2.2]oct-5-en-2-yl]-	Glycolieral	0.00121000
316.	68039-44-1	Propanoic acid, 2,2-dimethyl-, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl ester	Pivacyclene	0.00119000
317.	106-29-6	Butanoic acid, (2E)-3,7-dimethyl-2,6-octadien-1-yl ester	Geranyl Butyrate	0.00116000
318.	5471-51-2	2-Butanone, 4-(4-hydroxyphenyl)-	Raspberry ketone	0.00106000
319.	109-42-2	10-Undecenoic acid, butyl ester	Butyl Undecylenate	0.00104000

*Vapor Pressures are acquired as described in the Test Methods Section.

**Origin: Same as for Table 1 hereinabove.

[0127] Exemplary moderate volatile fragrance materials selected from the group of Table 2 Moderate Volatile Fragrance Materials are preferred. However, it is understood by one skilled in the art that other moderate volatile fragrance materials, not recited in Table 2, would also fall within the scope of the present invention, so long as they have a vapor pressure of 0.1 to 0.001 Torr at 25° C.

[0128] Preferably, the compositions of the present invention, wherein: (i)(b) the moderate volatile fragrance material is selected from the group of Table 2 Moderate Volatile Fragrance Materials 1-9, 11-12, 14-15, 17-18, 20-25, 27-35, 37-38, 39-43, 45-46, 48-53, 55-61, 63, 65, 67-71, 73-77, 79, 81-84, 86-91, 93-122, 124-125, 130-131, 133-135, 137, 139-145, 147-149, 151, 153-155, 157, 161-162, 164-169, 171-191, 193, 195-198, 200-203, 205-215, 218-219, 221, 223-241, 243, 245-250, 252-255, 257-262, 264-265, 267-268, 272, 273-276, 279-300, 302-304, 306, 308-310, 312-319, and mixtures thereof, and (ii) the substantially non-odoriferous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odoriferous Fragrance Modulators 1-5, and mixtures thereof.

[0129] Preferably, the compositions of the present invention, wherein: (i)(a) the moderate volatile fragrance material is selected from the group consisting of Table 2 Moderate Volatile Fragrance Materials 1, 3, 4, 6, 7, 9, 11-12, 14, 15, 17-18, 20-25, 30-31, 34-35, 37-38, 41-42, 45-46, 49, 51-53, 55, 57-59, 65-70, 73, 75-77, 79-80, 82, 86-89, 91-94, 98,

101-107, 111-113, 115-122, 124-125, 130-133, 135, 137, 139-143, 145, 147-149, 151, 153-155, 157-159, 161-162, 164-168, 171-180, 182-183, 187-191, 193, 195-198, 200-203, 205-213, 218-219, 221-222, 224-229, 231-241, 243, 245-250, 252, 253, 254-255, 257-263, 264-265, 267-269, 271, 273-276, 279-300, 302-304, 306, 308-310, 312, 314-319, and mixtures thereof; and (ii) the substantially non-odoriferous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odoriferous Fragrance Modulators 6-8, and mixtures thereof.

[0130] Preferably, the compositions of the present invention, the low volatile fragrance material is selected from the group (as described herein above), and wherein this group of low volatile fragrance material has at least about 20 wt %, at least about 30 wt %, at least about 40 wt %, at least about 50 wt %, at least about 60 wt %, or at least about 70 wt %, relative to the total weight of the low volatile fragrance material.

[0131] (iii) High Volatile Fragrance Materials

[0132] Preferable examples of high volatile fragrance materials having a vapor pressure greater than 0.1 (0.0133 kPa) Torr at 25° C. are provided in Table 3 High Volatile Fragrance Materials.

[0133] Preferably, the high volatile fragrance material is selected from at least 1 material, or at least 2 materials, or at least 3 materials, or at least 5 materials, or at least 7 high volatile fragrance materials as disclosed in Table 3.

TABLE 3

High Volatile Fragrance Materials				
CAS No.	Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
1.	107-31-3	Formic acid, methyl ester	Methyl Formate	732.00000000
2.	75-18-3	Methane, 1,1'-thiobis-	Dimethyl Sulfide 1.0% In DEP	647.00000000
3.	141-78-6	Acetic acid ethyl ester	Ethyl Acetate	112.00000000

TABLE 3-continued

High Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
4.	105-37-3	Propanoic acid, ethyl ester	Ethyl Propionate	44.50000000
5.	110-19-0	Acetic acid, 2-methylpropyl ester	Isobutyl Acetate	18.00000000
6.	105-54-4	Butanoic acid, ethyl ester	Ethyl Butyrate	13.90000000
7.	14765-30-1	1-Butanol	Butyl Alcohol	8.52000000
8.	7452-79-1	Butanoic acid, 2-methyl-, ethyl ester	Ethyl-2-Methyl Butyrate	7.85000000
9.	123-92-2	1-Butanol, 3-methyl-, 1-acetate	Iso Amyl Acetate	5.68000000
10.	66576-71-4	Butanoic acid, 2-methyl-, 1-methylethyl ester	Iso Propyl 2-Methylbutyrate	5.10000000
11.	110-43-0	2-Heptanone	Methyl Amyl Ketone	4.73000000
12.	6728-26-3	2-Hexenal, (2E)-	Trans-2 Hexenal	4.62000000
13.	123-51-3	1-Butanol, 3-methyl-	Isoamyl Alcohol	4.16000000
14.	1191-16-8	2-Buten-1-ol, 3-methyl-, 1-acetate	Preanyl acetate	3.99000000
15.	57366-77-5	1,3-Dioxolane-2-methanamine, N-methyl-	Methyl Dioxolan	3.88000000
16.	7785-70-8	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, (1R,5R)-	Alpha Pinene	3.49000000
17.	79-92-5	Bicyclo[2.2.1]heptane, 2, 2-dimethyl-3-methylene-	Camphene	3.38000000
18.	94087-83-9	2-Butanethiol, 4-methoxy-2-methyl-	4-Methoxy-2-Methyl-2-Butanethiol	3.31000000
19.	39255-32-8	Pentanoic acid, 2-methyl-, ethyl ester	Manzanate	2.91000000
20.	3387-41-5	Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)-	Sabinene	2.63000000
21.	127-91-3	Bicyclo[3.1.1]heptane, 6, 6-dimethyl-2-methylene-	Beta Pinene	2.40000000
22.	105-68-0	1-Butanol, 3-methyl-, 1-propanoate	Amyl Propionate	2.36000000
23.	123-35-3	1,6-Octadiene, 7-methyl-3-methylene-	Myrcene	2.29000000
24.	124-13-0	Octanal	Octyl Aldehyde	2.07000000
25.	7392-19-0	2H-Pyran, 2-ethenyltetrahydro-2,6,6-trimethyl-	Limetol	1.90000000
26.	111-13-7	2-Octanone	Methyl Hexyl Ketone	1.72000000
27.	123-66-0	Hexanoic acid, ethyl ester	Ethyl Caproate	1.66000000
28.	470-82-6	2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl-	Eucalyptol	1.65000000
29.	99-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	Para Cymene	1.65000000
30.	104-93-8	Benzene, 1-methoxy-4-methyl-	Para Cresyl Methyl Ether	1.65000000
31.	13877-91-3	1,3,6-Octatriene, 3,7-dimethyl-	Ocimene	1.56000000
32.	138-86-3	Cyclohexene, 1-methyl-4-(1-methylethenyl)-	dl-Limonene	1.54000000
33.	5989-27-5	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-	d-limonene	1.54000000
34.	106-68-3	3-Octanone	Ethyl Amyl Ketone	1.50000000
35.	110-41-8	Undecanal, 2-methyl-	Methyl Nonyl Acetaldehyde	1.43000000
36.	142-92-7	Acetic acid, hexyl ester	Hexyl acetate	1.39000000
37.	110-93-0	5-Hepten-2-one, 6-methyl-	Methyl Heptenone	1.28000000
38.	81925-81-7	2-Hepten-4-one, 5-methyl-	Filbertone 1% in TEC	1.25000000
39.	3681-71-8	3-Hexen-1-ol, 1-acetate, (3Z)-	cis-3-Hexenyl acetate	1.22000000
40.	97-64-3	Propanoic acid, 2-hydroxy-, ethyl ester	Ethyl Lactate	1.16000000
41.	586-62-9	Cyclohexene, 1-methyl-4-(1-methylethylidene)-	Terpineolene	1.13000000
42.	51115-64-1	Butanoic acid, 2-methylbutyl ester	Amyl butyrate	1.09000000
43.	106-27-4	Butanoic acid, 3-methylbutyl ester	Amyl Butyrate	1.09000000
44.	99-85-4	1,4-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	Gamma Terpinene	1.08000000

TABLE 3-continued

High Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
45.	18640-74-9	Thiazole, 2-(2-methylpropyl)-	2-Isobutylthiazole	1.07000000
46.	928-96-1	3-Hexen-1-ol, (3Z)-	cis-3-Hexenol	1.04000000
47.	100-52-7	Benzaldehyde	Benzaldehyde	0.97400000
48.	141-97-9	Butanoic acid, 3-oxo-, ethyl ester	Ethyl Acetoacetate	0.89000000
49.	928-95-0	2-Hexen-1-ol, (2E)-	Trans-2-Hexenol	0.87300000
50.	928-94-9	2-Hexen-1-ol, (2Z)-	Beta Gamma Hexenol	0.87300000
51.	24691-15-4	Cyclohexane, 3-ethoxy-1, 1,5-trimethyl-, cis-(9CI)	Herbavert	0.85200000
52.	19872-52-7	2-Pentanone, 4-mercapto-4-methyl-	4-Methyl-4-Mercaptopentan-2-one 1 ppm TEC	0.84300000
53.	3016-19-1	2,4,6-Octatriene, 2,6-dimethyl-, (4E,6E)-	Allo-Ocimene	0.81600000
54.	69103-20-4	Oxirane, 2,2-dimethyl-3-(3-methyl-2,4-pentadien-1-yl)-	Myroxide	0.80600000
55.	189440-77-5	4,7-Octadienoic acid, methyl ester, (4E)-	Anapear	0.77700000
56.	67633-96-9	Carbonic acid, (3Z)-3-hexen-1-yl methyl ester	Liffarome™	0.72100000
57.	123-68-2	Hexanoic acid, 2-propen-1-yl ester	Allyl Caproate	0.67800000
58.	106-72-9	5-Heptenal, 2,6-dimethyl-	Melonal	0.62200000
59.	106-30-9	Heptanoic acid, ethyl ester	Ethyl Oenanthate	0.60200000
60.	68039-49-6	3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	Ligustral or Triplal	0.57800000
61.	101-48-4	Benzene, (2,2-dimethoxyethyl)-	Phenyl Acetaldehyde Dimethyl Acetal	0.55600000
62.	16409-43-1	2H-Pyran, tetrahydro-4-methyl-2-(2-methyl-1-propen-1-yl)-	Rose Oxide	0.55100000
63.	925-78-0	3-Nonanone	Ethyl Hexyl Ketone	0.55100000
64.	100-47-0	Benzonitrile	Benzyl Nitrile	0.52400000
65.	589-98-0	3-Octanol	Octanol-3	0.51200000
66.	58430-94-7	1-Hexanol, 3,5,5-trimethyl-, 1-acetate	Iso Nonyl Acetate	0.47000000
67.	10250-45-0	4-Heptanol, 2,6-dimethyl-, 4-acetate	Alicate	0.45400000
68.	105-79-3	Hexanoic acid, 2-methylpropyl ester	Iso Butyl Caproate	0.41300000
69.	2349-07-7	Propanoic acid, 2-methyl-, hexyl ester	Hexyl isobutyrate	0.41300000
70.	23250-42-2	Cyclohexanecarboxylic acid, 1,4-dimethyl-, methyl ester, trans-	Cyprissate	0.40500000
71.	122-78-1	Benzeneacetaldehyde	Phenyl acetaldehyde	0.36800000
72.	5405-41-4	Butanoic acid, 3-hydroxy-, ethyl ester	Ethyl-3-Hydroxy Butyrate	0.36200000
73.	105-53-3	Propanedioic acid, 1,3-diethyl ester	Diethyl Malonate	0.34400000
74.	93-58-3	Benzoic acid, methyl ester	Methyl Benzoate	0.34000000
75.	16356-11-9	1,3,5-Undecatriene	Undecatriene	0.33600000
76.	65405-70-1	4-Decenal, (4E)-	Decenal (Trans-4)	0.33100000
77.	54546-26-8	1,3-Dioxane, 2-butyl-4,4,6-trimethyl-	Herboxane	0.33000000
78.	13254-34-7	2-Heptanol, 2,6-dimethyl-	Dimethyl-2 6-Heptan-2-ol	0.33000000
79.	98-86-2	Ethanone, 1-phenyl-	Acetophenone	0.29900000
80.	93-53-8	Benzeneacetaldehyde, α -methyl-	Hydratropic aldehyde	0.29400000
81.	80118-06-5	Propanoic acid, 2-methyl-, 1,3-dimethyl-3-buten-1-yl ester	Iso Pentyrate	0.28500000
82.	557-48-2	2,6-Nonadienal, (2E,6Z)-	EZ-2,6-Nonadien-1-al	0.28000000
83.	24683-00-9	Pyrazine, 2-methoxy-3-(2-methylpropyl)-	2-Methoxy-3-Isobutyl Pyrazine	0.27300000
84.	104-57-4	Formic acid, phenylmethyl ester	Benzyl Formate	0.27300000
85.	104-45-0	Benzene, 1-methoxy-4-propyl-	Dihydroanethole	0.26600000

TABLE 3-continued

High Volatile Fragrance Materials				
No.	CAS Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
86.	491-07-6	Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2R, 5R)-rel-	Iso Menthone	0.25600000
87.	89-80-5	Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2R, 5S)-rel-	Menthone Racemic	0.25600000
88.	2463-53-8	2-Nonenal	2 Nonen-1-al	0.25600000
89.	55739-89-4	Cyclohexanone, 2-ethyl-4, 4-dimethyl-	Thuyacetone	0.25000000
90.	150-78-7	Benzene, 1,4-dimethoxy-	Hydroquinone Dimethyl Ether	0.25000000
91.	64988-06-3	Benzene, 1-(ethoxymethyl)-2-methoxy-	Rosacene	0.24600000
92.	76-22-2	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	Camphor gum	0.22500000
93.	67674-46-8	2-Hexene, 6,6-dimethoxy-2,5,5-trimethyl-	Methyl Pamplemousse	0.21400000
94.	112-31-2	Decanal	Decyl Aldehyde	0.20700000
95.	16251-77-7	Benzenepropanal, β -methyl-	Trifernal	0.20600000
96.	93-92-5	Benzenemethanol, α -methyl-, 1-acetate	Methylphenylcarbinol Acetate	0.20300000
97.	143-13-5	Acetic acid, nonyl ester	Nonyl Acetate	0.19700000
98.	122-00-9	Ethanone, 1-(4-methylphenyl)-	Para Methyl Acetophenone	0.18700000
99.	24237-00-1	2H-Pyran, 6-butyl-3,6-dihydro-2,4-dimethyl-	Gyrane	0.18600000
100.	41519-23-7	Propanoic acid, 2-methyl-, (3Z)-3-hexen-1-yl ester	Hexenyl Isobutyrate	0.18200000
101.	93-89-0	Benzoic acid, ethyl ester	Ethyl Benzoate	0.18000000
102.	20780-48-7	3-Octanol, 3,7-dimethyl-3-acetate	Tetrahydro Linalyl Acetate	0.18000000
103.	101-41-7	Methyl 2-phenylacetate	Methylphenyl acetate	0.17600000
104.	40853-55-2	1-Hexanol, 5-methyl-2-(1-methylethyl)-, 1-acetate	Tetrahydro Lavandulyl Acetate	0.17300000
105.	933-48-2	Cyclohexanol, 3,3,5-trimethyl-, (1R,5R)-rel-	Trimethylcyclohexanol	0.17300000
106.	35158-25-9	2-Hexenal, 5-methyl-2-(1-methylethyl)-	Lactone of Cis Jasmone	0.17200000
107.	18479-58-8	7-Octen-2-ol, 2,6-dimethyl-	Dihydromyrcenol	0.16600000
108.	140-11-4	Acetic acid, phenylmethyl ester	Benzyl acetate	0.16400000
109.	14765-30-1	Cyclohexanone, 2-(1-methylpropyl)-	2-sec-Butyl Cyclo Hexanone	0.16300000
110.	20125-84-2	3-Octen-1-ol, (3Z)-	Octenol	0.16000000
111.	142-19-8	Heptanoic acid, 2-propen-1-yl ester	Allyl Heptoate	0.16000000
112.	100-51-6	Benzenemethanol	Benzyl Alcohol	0.15800000
113.	10032-15-2	Butanoic acid, 2-methyl-, hexyl ester	Hexyl-2-Methyl Butyrate	0.15800000
114.	695-06-7	2(3H)-Furanone, 5-ethylidihydro-	Gamma Hexalactone	0.15200000
115.	21722-83-8	Cyclohexaneethanol, 1-acetate	Cyclohexyl Ethyl Acetate	0.15200000
116.	111-79-5	2-Nonenoic acid, methyl ester	Methyl-2-Nonenoate	0.14600000
117.	16491-36-4	Butanoic acid, (3Z)-3-hexen-1-yl ester	Cis 3 Hexenyl Butyrate	0.13500000
118.	111-12-6	2-Octynoic acid, methyl ester	Methyl Heptine Carbonate	0.12500000
119.	59323-76-1	1,3-Oxathiane, 2-methyl-4-propyl-, (2R,4S)-rel-	Oxane	0.12300000
120.	62439-41-2	Heptanal, 6-methoxy-2,6-dimethyl-	Methoxy Melonal	0.11900000
121.	13851-11-1	Bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-, 2-acetate	Fenchyl Acetate	0.11700000
122.	115-95-7	1,6-Octadien-3-ol, 3,7-dimethyl-, 3-acetate	Linalyl acetate	0.11600000
123.	18479-57-7	2-Octanol, 2,6-dimethyl-	Tetra-Hydro Myrcenol	0.11500000
124.	78-69-3	3,7-dimethyloctan-3-ol	Tetra Hydro Linalool	0.11500000

TABLE 3-continued

High Volatile Fragrance Materials				
CAS No.	Number	IUPAC Name	Common Name**	Vapor Pressure (Torr at 25° C.)*
125.	111-87-5	1-Octanol	Octyl Alcohol	0.11400000
126.	71159-90-5	3-Cyclohexene-1-methanethiol, $\alpha,\alpha,4$ -trimethyl-	Grapefruit mercaptan	0.10500000
127.	80-25-1	Cyclohexanemethanol, $\alpha,\alpha,4$ -trimethyl-, 1-acetate	Menthanyl Acetate	0.10300000
128.	88-41-5	Cyclohexanol, 2-(1,1-dimethylethyl)-, 1-acetate	Verdox™	0.10300000
129.	32210-23-4	Cyclohexanol, 4-(1,1-dimethylethyl)-, 1-acetate	Vertenex	0.10300000
130.	112-44-7	Undecanal	n-Undecanal	0.10200000
131.	124-19-6	Nonanal	Nonanal Aldehyde C-9	0.53200000
132.	929253-05-4	6-methoxy-2,6-dimethyloctanal	6-methoxy-2,6-dimethyl octanal	0.04020000
133.	68039-47-4	2-propan-2-yloxyethylbenzene	Phenethyl Isopropyl Ether	0.24900000
134.	6413-10-1	ethyl 2-(2-methyl-1,3-dioxolan-2-yl)acetate	Apple Ketal	0.21900000
135.	106-23-0	3,7-dimethyloct-6-enal	citronellal	0.21500000

*Vapor Pressures are acquired as described in the Test Methods Section.

**Origin: Same as for Table 1 hereinabove.

[0134] Exemplary high volatile fragrance materials selected from the group of Table 3 High Volatile Fragrance Materials are preferred. However, it is understood by one skilled in the art that other high volatile fragrance materials, not recited in Table 3, would also fall within the scope of the present invention, so long as they have a vapor pressure of greater than 0.1 Torr (0.0133 kPa) at 25° C.

[0135] Preferably, the compositions of the present invention, wherein: (i)(c) the high volatile fragrance material is selected from the group of Table 3 High Volatile Fragrance Materials 1, 2, 6, 8, 9, 12, 14, 19, 36, 39, 46, 47, 56, 57, 58, 60, 62, 74, 78, 93, 94, 96, 100, 106, 111, 117, 119, 120, 128, 129, 131-135 and mixtures thereof; and (ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odoriferous Fragrance Modulators 1-5, and mixtures thereof.

[0136] Preferably, the compositions of the present invention, wherein: (i)(c) the high volatile fragrance material is selected from the group consisting of Table 3 high Volatile Fragrance Materials 1, 2, 6, 8, 9, 12, 14, 19, 36, 39, 46, 47, 56, 57, 58, 60, 62, 74, 78, 93, 94, 96, 100, 106, 111, 117, 119, 120, 128, 129, 131-135, and mixtures thereof; and (ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odoriferous Fragrance Modulators 6-8, and mixtures thereof.

[0137] Preferably, the compositions of the present invention, the high volatile fragrance material is selected from the group (as described herein above), and wherein this group of high volatile fragrance material has at least about 20 wt %, at least about 30 wt %, at least about 40 wt %, at least about 50 wt %, at least about 60 wt %, or at least about 70 wt %, relative to the total weight of the high volatile fragrance material.

Fragrance Modulators

[0138] In one aspect, compositions of the present invention comprise at least one substantially non-odorous modulator selected from the group consisting of:

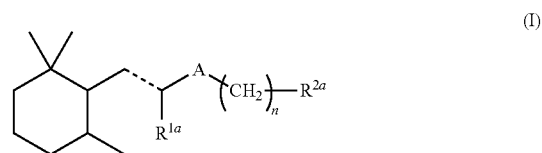
[0139] (a) Methyl Glucoside Polyol; Ethyl Glucoside Polyol; Propyl Glucoside Polyol; and their mixtures;

[0140] (b) Isocetyl Alcohol;

[0141] (c) PPG-3 Myristyl Ether; Neopentyl Glycol Diethylhexanoate; and their mixtures;

[0142] (d) Sucrose Laurate, Sucrose Dilaurate, Sucrose Myristate, Sucrose Palmitate, Sucrose Stearate, Sucrose Distearate, Sucrose Tristearate, and mixtures thereof;

[0143] (e) Trimethylcyclohexane derivatives having the formula (I):



[0144] wherein:

[0145] n is 0, 1 or 2;

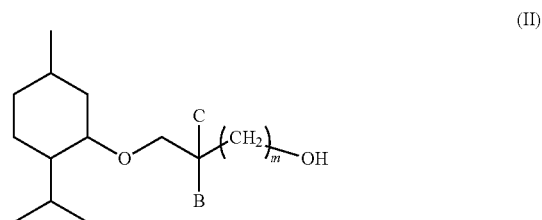
[0146] A is C=O or CH—OH;

[0147] R^{1a} is hydrogen or methyl;

[0148] R^{2a} is a C₂-C₁₀ hydrocarbon group; and

[0149] ----- is a saturated or unsaturated carbon-carbon bond;

[0150] (f) L-menthoxy ether derivatives having the formula (II):



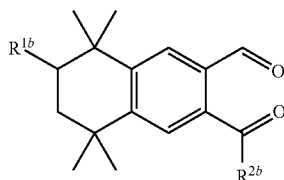
[0151] wherein:

[0152] m is 0, 1 or 2;

[0153] B is hydrogen or OH; and

[0154] C is hydrogen or methyl;

[0155] (g) Tetra-hydronaphthalene derivatives having the formula (III):



(III)

[0156] wherein:

[0157] R^{1b} is hydrogen or methyl; and

[0158] R^{2b} is alkyl;

[0159] (h) Hyaluronic acid disaccharide sodium salt, sodium hyaluronate and their mixtures;

[0160] (i) Ether derivatives having the formula (IV) or formula (V):



[0161] wherein:

[0162] $C_5H_7O_m$ is a pentose residue, wherein l is an integer from 6 to 9, and m is an integer from 1 to 4;

[0163] n is an integer from 1 to 4; and

[0164] R^{1c} is C_4 - C_{20} hydrocarbon group; and



[0165] wherein:

[0166] $C_6H_xO_y$ is a hexose residue, wherein x is an integer from 7 to 11, and y is an integer from 1 to 5;

[0167] z is an integer from 1 to 5; and

[0168] R^{1d} is C_4 - C_{20} hydrocarbon group; and

[0169] (j) Diethylene Glycol Ether derivatives having the formula (VI) or formula (VII):

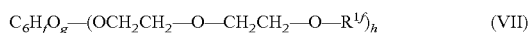


[0170] wherein:

[0171] $C_5H_cO_d$ is a pentose residue, wherein c is an integer from 6 to 8, and d is an integer from 1 to 3;

[0172] e is an integer from 2 to 4; and

[0173] R^{1e} is C_1 - C_6 alkyl group; and



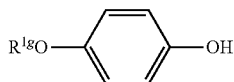
[0174] wherein:

[0175] $C_6H_fO_g$ is a hexose residue, wherein f is an integer from 7 to 10, and g is an integer from 1 to 4;

[0176] h is an integer from 2 to 5; and

[0177] R^{1f} is C_1 - C_6 alkyl group;

[0178] (k) Hydroquinone Glycoside derivatives having the formula (VIII):



(VIII)

[0179] wherein:

[0180] R^{1g} is selected from the group consisting of: (i) pentose residue, hexose residue, aminosac-

charide residue, uronic acid residue and their mixtures; (ii) methylated versions of group (i); and (iii) mixtures of groups (i) and (ii); and

[0181] (l) Propylene Glycol Propyl Ether; Dicetyl Ether; Polyglycerin-4 Ethers; Isoceteth-5; Isoceteth-7; Isoceteth-10; Isoceteth-12; Isoceteth-15; Isoceteth-20; Isoceteth-25; Isoceteth-30; Disodium Lauroamphodipropionate; Hexaethylene glycol monododecyl ether; and their mixtures;

[0182] (m) Neopentyl Glycol Diisononanoate; Cetearyl Ethylhexanoate; and their mixtures;

[0183] (n) Glyceryl Ether derivatives having the formula (IX):



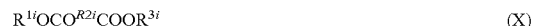
(IX)

[0184] wherein:

[0185] R^{1h} is C_4 - C_{12} aliphatic hydrocarbon group;

[0186] (o) Panthenol Ethyl Ether, DL-Panthenol and their mixtures;

[0187] (p) Aliphatic Dibasic Acid Diester derivatives having the formula (X):



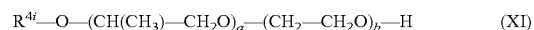
[0188] wherein:

[0189] R^{1i} is C_4 - C_5 alkyl;

[0190] R^{2i} is C_4 alkylene; and

[0191] R^{3i} is C_4 - C_5 alkyl; and

[0192] (q) Aliphatic Ether derivatives having the formula (XI):



[0193] wherein:

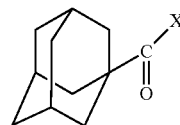
[0194] a and b are integers such that the sum of a and b is from 1 to 4; and

[0195] R^{4i} is an aliphatic chain comprising from 8 to 18 carbons;

[0196] (r) N-hexadecyl n-nonanoate, Noctadecyl n-nonanoate and their mixtures;

[0197] (s) Tricyclodecane Amide derivatives selected from the group consisting of:

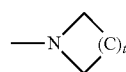
[0198] (i) the compounds of formula (XII):



(XII)

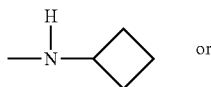
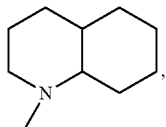
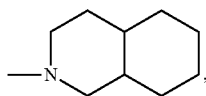
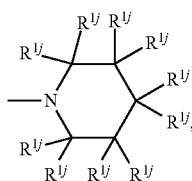
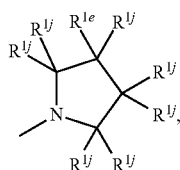
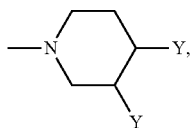
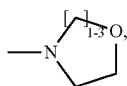
[0199] wherein:

[0200] X is selected from:



(Xa)

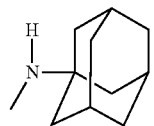
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or

-continued

(Xb)

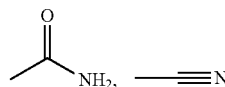


(Xi)

(Xc)

[0201] t is 1 to 8;
[0202] Y is hydrogen,

(Xd)

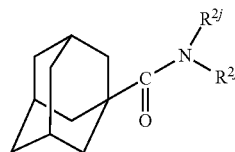


(Xe)

or a halogen; and
[0203] each R^{Lj} is independently selected from a hydrogen, or C₁-C₄ alkyl;
[0204] (ii) the compounds of formula (XIII):

(XIII)

(Xf)



(Xg)

[0205] wherein:
[0206] each R^{2j} is independently selected from a hydrogen, methyl, ethyl or C₃-C₁₈ alkyl, cycloalkyl or cycloheteroalkyl, with the proviso that both R^{2e} groups are not hydrogen; and

(Xh)

[0207] (iii) mixtures of the compounds of formulae (XII) and (XIII); and
[0208] (t) mixtures thereof.
[0209] Preferably, the substantially non-odorous fragrance modulator is selected from the group of materials disclosed in Table 4(a).

TABLE 4(a)

Substantially Non-Odororous Fragrance Modulators				
No.	Group	Chemical Name	CAS Number	Supplier
1.	(a)	PPG-10 Methyl Glucose Ether	61849-72-7	Lubrizol
2.		PPG-20 Methyl Glucose Ether ¹	61849-72-7	
3.		Ethoxylated Methyl Glucose Ether ²	68239-42-9	
4.		Caprylyl/Capryl Glucoside ³	68515-73-1	BASF
5.		Undecyl Glucoside ^{3a}	—	SEPPIC (France)
6.	(b)	Isocetyl Alcohol ⁴	36653-82-4	Ashland Speciality Ingredients
7.	(c)	PPG-3 Myristyl Ether ⁵	—	Evonik
8.		Neopentyl Glycol Diethylhexanoate ⁶	28510-23-8	Lubrizol
9.	(d)	Sucrose Laurate	25339-99-5	Alfa Chemicals Ltd. (UK)
10.		Sucrose dilaurate	25915-57-5	Alfa Chemicals Ltd. (UK)
11.		Sucrose Myristate	27216-47-3	Mitsubishi Chemicals
12.		Sucrose Palmitate	26446-38-8	Alfa Chemicals
13.		Sucrose Stearate	25168-73-4	Ltd. (UK)

TABLE 4(a)-continued

Substantially Non-Odoriferous Fragrance Modulators				
No.	Group	Chemical Name	CAS Number	Supplier
14.		Sucrose Distearate	27195-16-0	Mitsubishi Chemicals (JP)
15.		Sucrose Tristearate	27923063-3	Mitsubishi Chemicals (JP)
16.	(e)	(E)-1-(2,2,6-trimethylcyclohexyl)oct-1-en-3-one ⁸	—	Takasago (Japan)
17.	(f)	2-(1-menthoxy)ethane-1-ol ⁹	—	Takasago (Japan)
18.		1-(1-menthoxy)propane-2-ol ⁹	—	
19.		3-(1-menthoxy)propane-1-ol ⁹	—	
20.		3-(1-menthoxy)propane-1,2-diol ⁹	—	
21.		2-methyl-3-(1-menthoxy)propane-1,2-diol ⁹	—	
22.		4-(1-menthoxy) butane-1-ol ⁹	—	
23.	(g)	1,1,4,4-tetramethyl-6-acetyl-7-formyl-1,2,3,4-tetrahydronaphthalene ¹⁰	—	Givaudan (Switzerland)
24.		1,1,2,4,4-pentamethyl-6-acetyl-7-formyl-1,2,3,4-tetrahydronaphthalene ¹⁰	—	
25.	(h)	Hyaluronic acid disaccharide sodium salt ¹¹	9004-61-9	Sigma Aldrich (UK)
26.		Sodium Hyaluronate ¹¹	9067-32-7	
27.	(i)	Mono-o-(linalyl)-glucopyranose ¹²	—	Kanebo (Japan)
28.		Di-o-(linalyl)-glucopyranose ¹²	—	
29.		Tri-o-(linalyl)-glucopyranose ¹²	—	
30.		Tetra-o-(linalyl)-glucopyranose ¹²	—	
31.		Penta-o-(linalyl)-glucopyranose ¹²	—	
32.		Mono-o-(cis-3-hexenyl)-galactopyranose ¹²	—	
33.		Di-o-(cis-3-hexenyl)-galactopyranose ¹²	—	
34.		Tri-o-(cis-3-hexenyl)-galactopyranose ¹²	—	
35.		Tetra-o-(cis-3-hexenyl)-galactopyranose ¹²	—	
36.		Penta-o-(cis-3-hexenyl)-galactopyranose ¹²	—	
37.	(j)	Bis-O-(3,6-dioxadecanyl)-glucopyranose ¹³	—	
38.		Tris-O-(3,6-dioxadecanyl)-glucopyranose ¹³	—	
39.		Tetrakis-O-(3,6-dioxadecanyl)-glucopyranose ¹³	—	
40.		Pentakis-O-(3,6-dioxadecanyl)-glucopyranose ¹³	—	
41.		Bis-O-(3,6-dioxaoctanyl)-galactopyranose ¹³	—	
42.		Tris-O-(3,6-dioxaoctanyl)-galactopyranose ¹³	—	
43.		Tetrakis-O-(3,6-dioxaoctanyl)-galactopyranose ¹³	—	
44.		Pentakis-O-(3,6-dioxaoctanyl)-galactopyranose ¹³	—	
45.		Bis-O-(3,6-dioxahaptanyl)-xylopyranose ¹³	—	
46.		Tris-O-(3,6-dioxahaptanyl)-xylopyranose ¹³	—	
47.		Tetrakis-O-(3,6-dioxahaptanyl)-xylopyranose ¹³	—	
48.		Bis-O-(3,6-dioxadodecanyl)-glucopyranose ¹³	—	
49.		Tris-O-(3,6-dioxadodecanyl)-glucopyranose ¹³	—	
50.		Tetrakis-O-(3,6-dioxadodecanyl)-glucopyranose ¹³	—	
51.		Pentakis-O-(3,6-dioxadodecanyl)-glucopyranose ¹³	—	
52.	(k)	Hydroquinone beta-D-glycoside ¹⁴	497-76-7	Shiseido
53.	(l)	Propylene Glycol Propyl Ether	1569-01-3	Sigma Aldrich (UK)
54.		Dicetyl Ether	4113-12-6	Solvay Chemicals
55.		Polyglycerin-4 Ethers	25618-55-7	
56.		Isoceteth-5	69364-63-2	Nihon Emulsion Company Ltd.
57.		Isoceteth-7	69364-63-2	
58.		Isoceteth-10	69364-63-2	
59.		Isoceteth-12	69364-63-2	
60.		Isoceteth-15	69364-63-2	
61.		Isoceteth-20	69364-63-2	
62.		Isoceteth-25	69364-63-2	
63.		Isoceteth-30	69364-63-2	
64.		Disodium Lauroamphodipropionate	68929-04-4	Rhodia
65.		Hexaethylene glycol monododecyl ether ^{14b}	3055-96-7	Sigma Aldrich (UK)
66.	(m)	Neopentyl Glycol Diisononanoate ¹⁵	27841-07-2	Symrise (Germany)
67.		Cetearyl Ethylhexanoate ¹⁶	90411-68-0	
68.	(n)	2-ethylhexyloxypropanediol ¹⁷	70455-33-9	Takasago (JP)

TABLE 4(a)-continued

Substantially Non-Odoriferous Fragrance Modulators				
No.	Group	Chemical Name	CAS Number	Supplier
69.	(o)	Panthenol Ethyl Ether ¹⁸	667-83-4	DSM Nutritional Products, Inc. (USA)
70.		DL-Panthenol	16485-10-2	Roche Inc. (USA)
71.	(p)	Diisobutyl Adipate ¹⁹	141-04-8	Sigma Aldrich (UK)
72.		Diisoamyl Adipate ¹⁹	6624-70-0	(UK)
73.	(q)	PPG-11 Stearyl Ether ^{19a}	25231-21-4	Kao (JP)
74.	(r)	N-hexadecyl n-nonanoate ^{19b} (i.e., cetyl nonanoate)	72934-15-7	Symrise (Germany)
75.		Noctadecyl n-nonanoate ^{19b} (i.e., stearyl nonanoate)	107647-13-2	
76.	(s)	methanone, (morphonyl)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	Unilever (UK)
77.		methanone, (piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
78.		methanone, (pyrrolidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
79.		methanone, (azetidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
80.		methanone, (hexahydroazepiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
81.		methanone, (4-cyano-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
82.		methanone, (4-amido-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
83.		methanone, (Tricyclo[3.3.1.1 ^{3,7}]decanyl)-N-tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
84.		methanone, (decahydroisoquinoliny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
85.		methanone, (decahydroisoquinoliny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
86.		methanone, (decahydroquinoliny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
87.		methanone, (3,3-dimethyl-1-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
88.		methanone, (2-methyl-1-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
89.		methanone, (4-methyl-1-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
90.		methanone, (3-methyl-1-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
91.		methanone, (3,5-dimethyl-1-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
92.		methanone, (4-methyl-4-ethyl-piperidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
93.		methanone, (3,3-diethyl-1-pyrrolidiny)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
94.		methanone, (N,N-diisopropyl)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
95.		methanone, (3,3-dimethylbutylaminy)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
96.		methanone, (2,2-dimethylpropylaminy)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
97.		methanone, (1,1-dimethyl-3,3-dimethylbutylaminy) tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
98.		methanone, (1,3-dimethyl-butylaminy)tricyclo[3.3.1.1 ^{3,7}]dec-1-yl ²⁰	—	
99.	(t)	Bis-methoxy PEG-13 PEG-438/PPG-110 SMDI Copolymer ²¹	936645-35-1	PolymerExpert S.A. (Pessac, France)
100.	(u)	propyl {4-[2-(diethylamino)-2-oxoethoxy]-3-methoxyphenyl}acetate ²²	61791-12-6	Sigma Aldrich (US)

TABLE 4(a)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Group	Chemical Name	CAS Number	Supplier
101.	(v)	3-((2-ethylhexyl)oxy)propane-1,2-diol ²³	70445-33-9	—
102.		3-((2-propylheptyl)oxy)propane-1,2-diol ²³	—	—
103.		1-amino-3-((2-ethylhexyl)oxy)propan-2-ol ²³	99509-00-9	—

¹available as GLUCAM™ P-20.²available as Glucam™ E-20.³available as Plantacare® 810 UP.^{3a}available as Simulsol® SL 11W.⁴available as CERAPHYL® ICA.⁵available as Tegosoft® APM.⁶available as Schercemol™ NGDO.⁷disclosed in U.S. Pat. No. 6,737,396B2 (Firmenich), column 1, lines 43-47.⁸disclosed as compound 1'i in U.S. Pat. No. 6,440,400B1 (Takasago Int. Corp.), col. 5.^{8a}disclosed in U.S. Pat. No. 4,313,855 (Dragoco Gerberding & Co. GmbH), col. 1, lines 12-13.⁹disclosed in U.S. Pat. No. 7,538,081B2 (Takasago Int. Corp.), column 7, lines 50-53.¹⁰disclosed in U.S. Pat. No. 6,147,049 (Givaudan Roure), col. 5, line 24, to col. 6, line 17.¹¹disclosed in PCT Publication No. WO85/04803 (Diagnostic), pg. 2, line 1 to pg. 4, line 2.¹²disclosed in JP Patent No. 61-083114 (Kanebo).¹³disclosed in JP Patent No. 61-063612 (Kanebo).¹⁴disclosed in JP Patent No. 62-084010 (Shiseido).^{14a}available as: Laureth-6.¹⁵disclosed in U.S. Patent Publication No. 2011/0104089A1 (Symrise), para. [0001].¹⁶available as PCL-Liquid® 100.¹⁷disclosed in U.S. Pat. No. 7,196,052 (Takasago Int. Corp.), col. 4, lines 34-35.¹⁸disclosed in EP Patent Publication No. 616800A2 (Givaudan), pg. 2, lines 12-25.¹⁹disclosed in U.S. Pat. No. 4,110,626 (Shiseido), column 3, lines 54-56.^{19a}disclosed in PCT Publication No. WO2014/155019 (LVMH).^{19b}disclosed in U.S. Pat. No. 9,050,261 (Symrise).²⁰disclosed as compounds C1-C22 in WO2014/139952 (Unilever).²¹available as Expert Gel® EG56.²²available as Kolliphor® EL.²³disclosed in U.S. Pat. No. 9,050,261 (Symrise).

[0210] Preferably, the substantially non-odorous fragrance modulator is selected from the group of materials disclosed in Table 4(b).

TABLE 4(b)

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
1.	C12-14 Sec-Pareth-3	Tergitol® 15-S-7	68131-40-8	Sigma Aldrich (UK)
2.	Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	PPG-7-Buteth-10	9038-95-3	Sigma Aldrich (UK)
3.	PPG-4-Ceteth-10	Nikkol PBC-33	37311-01-6	Chemical Navi
4.	Deceth-4	Ethal DA-4	5703-94-6	Ethox Chemicals, Inc.
5.	PPG-5-Ceteth-20	AEC PPG-5-Ceteth-20	9087-53-0	A & E Connock (Perfumery & Cosmetics) Ltd.
6.	C14-15 Pareth-7	Neodol 45-7 alcohol ethoxylate	68951-67-7	Shell Chemical Company
7.	Linear alcohol (C12-15) Pareth-3ethoxylate, POE-7	Bio-soft N25-7	68131-39-5	Stephan Company (USA)
8.	Linear alcohol (C12-13) Pareth-3ethoxylated, POE-6.5	Bio-soft N23-6.5	66455-14-9	(USA)
9.	Polyethylene glycol 1100 mono(hexadecyl/octadecyl) ether	Cremophor® A 25	68439-49-6	Sigma Aldrich (UK)

TABLE 4(b)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
10.	Linear alcohol (C9-11) ethoxylated POE-8 Pareth-3	Bio-soft N91-8	68439-46-3	Stephan Company (USA)
11.	Coceth-10 or Polyoxyethylene (10) dodecyl ether	Genapol ® C-100	61791-13-7	Sigma Aldrich (UK)
12.	Alcohols, C12-14, ethoxylated	Rhodasurf® LA 30	68439-50-9	Solvay Solutions Italia S.p.A.
13.	Poly(ethylene glycol) methyl ether	Poly(ethylene glycol) methyl ether	9004-74-4	Sigma Aldrich (UK)
14.	C10-16 Pareth-1	Neodol ® PC 110	68002-97-1	Shell Chemical Company (UK)
15.	PPG-11 Stearyl Ether	Arlamol™ PS11E	25231-21-4	Croda (UK)
16.	Steareth-100	Brij ® S100	9005-00-9	Sigma Aldrich (UK)
17.	Polyethylene glycol hexadecyl ether	Brij ® C-58	9004-95-9	Sigma Aldrich (UK)
18.	Pluronic ® F-127	Pluronic ® F-127	9003-11-6	Sigma Aldrich (UK)
19.	Linear Alcohol (C11) Ethoxylate, POE-5	Bio-soft N1-5	34398-01-1	Stepan Canada Inc.
20.	Laureth-10	Intrasol FA 12/18/10	6540-99-4	Evonik Industries AG
21.	Decaethylene glycol mono-dodecyl ether	Polyoxyethylene (10) lauryl ether	9002-92-0	Sigma Aldrich (UK)
22.	Ethylene glycol monomethyl ether	2-Methoxyethanol	109-86-4	Sigma Aldrich (UK)
23.	Myreth-4	Homulgator 920 G	27306-79-2	Grau Aromatics GmbH & Company KG
24.	Oleth-16 Alkoxyated Alcohols	Pegnil O-16A	25190-05-0	Toho Chemical Industry Co., Ltd.
25.	Isosteareth-5	Emalex 1805	52292-17-8	Nihon Emulsion Company, Ltd.
26.	PPG-10 Cetyl Ether	Arlamol™ PC10	9035-85-2	Croda (UK)
27.	Polyoxy(ethylene glycol) (18) tridecyl ether	Poly(ethylene glycol) (18) tridecyl ether	24938-91-8	Sigma-Aldrich (UK)
28.	Poly(oxy-1,2-ethanediyl), a-decyl-w-hydroxy-	ALFONIC ® 10-8 Ethoxylate	26183-52-8	Sasol Chemicals (USA) LLC
29.	Laureth-1	Mackam™ 2LSF	4536-30-5	Rhodia (DE)
30.	PEG-5 Hydrogenated Tallow Amine	Ethox HTAM-5	61791-26-2	Ethox Chemicals, Inc.
31.	PEG-15 Oleamine	Nikkol TAMNO-15	26635-93-8	Nikko Chemicals Co., Ltd.
32.	Polyoxyethylene (20) oleyl ether	Brij ® O20-SS	9004-98-2	Sigma Aldrich (UK)
33.	Cetoeth-10	Brij ® CO10	8065-81-4	Croda, Inc.
34.	Talloweth-7	Emulmin 70	61791-28-4	Sanyo Chemical Industries Ltd.
35.	Isobutoxypropanol Alcohols	Isobutoxypropanol	34150-35-1	MolPort
36.	Isobutoxypropanol Alcohols	Isobutoxypropanol	23436-19-3	AKos Consulting & Solutions
37.	Diethylene Glycol	Twincide EDG	111-46-6	Roda

TABLE 4(b)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
38.	Methoxyethanol	Hisolve MC	109-86-4	Toho Chemical Industry Co., Ltd.
39.	Ethoxyethanol Alcohols	2-Ethoxyethanol	110-80-5	Sigma-Aldrich (UK)
40.	Methoxyisopropanol Alcohols	Dowanol™ PM	107-98-2	The Dow Chemical Company
41.	Methoxyethanol	Hisolve MC	32718-54-0	Toho Chemical Industry Co., Ltd.
42.	Methylal Ethers	Dimethoxymethane	109-87-5	Sigma-Aldrich (UK)
43.	3-Methoxybutanol	Methoxybutanol	2517-43-3	Hans Schwarzkopf GmbH/Co. KG
44.	Butoxyethanol	Butyl OXITOL	111-76-2	Shell Chemical Company
45.	Propylene Glycol n-Butyl Ether	Dowanol™ PnB	5131-66-8/29387-86-8	The Dow Chemical Company
46.	Propylene Glycol Butyl Ether	Propylene Glycol Butyl Ether	15821-83-7	Sigma Aldrich (UK)
47.	2-(2-butoxyethoxy)ethanol	Diethylene glycol butyl ether	112-34-5	Sigma Aldrich (UK)
48.	Deceth-4 Phosphate	Crodafos™ D4A	52019-36-0	Croda, Inc.
49.	2-(Hexadecyloxy)ethanol	Ethylene glycol monohexadecyl ether	2136-71-2	Sigma-Aldrich (UK)
50.	Poly(propylene glycol) monobutyl ether	Poly(propylene glycol) monobutyl ether	9003-13-8	Sigma-Aldrich (UK)
51.	Propylene Glycol Propyl Ether	Dowanol™ PnP	30136-13-1	The Dow Chemical Company
52.	Propylene Glycol n-Butyl Ether	Dowanol™ PnB	29387-86-8/5131-66-8	The Dow Chemical Company
53.	Dipropylene glycol monomethyl ether	Di(propylene glycol) methyl ether, mixture of isomers	34590-94-8	Sigma Aldrich (UK)
54.	Dipropylene Glycol Dimethyl Ether	Proglyde™ DMM	111109-77-4	The Dow Chemical Company
55.	PPG-2 Methyl Ether	Dowanol™ DPM	13429-07-7	The Dow Chemical Company
56.	Methoxydiglycol Ethers	OriStar DEGME	111-77-3	Orient Stars LLC
57.	Diethylene glycol ethyl ether	Di(ethylene glycol) ethyl ether	111-90-0	Sigma Aldrich (UK)
58.	Dimethoxydiglycol Ethers	Dimethyldiglycol	111-96-6	H&V Chemicals
59.	PPG-3 Methyl Ether	Dowanol™ TPM	37286-64-9	The Dow Chemical Company
60.	Methyl Morpholine Oxide Amine Oxides	224286 ALDRICH 4-Methylmorpholine N-oxide	7529-22-8	Sigma-Aldrich (UK)
61.	Oleth-3	Brij® O3	5274-66-8	Croda Europe, Ltd.
62.	Tri(propylene glycol) n-butyl ether	Dowanol™ TPnB	55934-93-5	Sigma-Aldrich (UK)
63.	Tripropylene Glycol	Tripropylene Glycol	24800-44-0	Sigma-Aldrich (UK)

TABLE 4(b)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
64.	PPG-3 Methyl Ether Alkoxylated Alcohols	Dowanol™ TPM	25498-49-1	The Dow Chemical Company
65.	Triethylene glycol	Triglycol	112-27-6	Sigma Aldrich (UK)
66.	PEG-3 Methyl Ether	Hymol™	112-35-6	Toho Chemical Industry Co., Ltd.
67.	Laureth-3	AEC Laureth-3	3055-94-5	A&E Connock (Perfumery & Cosmetics) Ltd.
68.	Ethylhexylglycerin	AG-G-75008	70445-33-9	Angene Chemical
69.	Tetra(ethylene glycol)	Tetraethylene glycol	112-60-7	Sigma Aldrich (UK)
70.	Steareth-3	Isoxal 5	4439-32-1	Vévy Europe SpA
71.	Ceteth-3	Emalex 103	4484-59-7	Nihon Emulsion Company, Ltd.
72.	Myreth-3	Isoxal 5	26826-30-2	Vévy Europe SpA
73.	Trideceth-3	Alfonic® TDA-3 Ethoxylate	—	Sasol North America, Inc.
74.	Ceteth-2	Brij® C2	5274-61-3	Croda Europe, Ltd.
75.	Oleth-2	Brij® O2	5274-65-7	Croda, Inc.
76.	Steareth-2	Brij® S2	16057-43-5	Croda, Inc.
77.	Cetoeth-10	Brij® CO10	8065-81-4	Croda, Inc.
78.	Trimethyl Pentanol Hydroxyethyl Ether Alcohols	Trimethyl Pentanol Hydroxyethyl Ether	68959-25-1	Angene Chemical
79.	Steareth-10 Allyl Ether	Salcare® SC80	109292-17-3	BASF
80.	TEA-Lauryl Ether	material ID-AG-J-99109	1733-93-3	Angene Chemical
81.	Polyglyceryl-2 Oleyl Ether	Chimexane NB	71032-90-1	Chimex
82.	Batyl Alcohol	B402 ALDRICH	544-62-7	Sigma-Aldrich (UK)
83.	Octaethylene Glycol	15879 ALDRICH	5117-19-1	Sigma-Aldrich (UK)
84.	Triglycerol diisostearate	Cithrol™	66082-42-6	Croda (UK)
85.	Diglycerin	Diglycerin 801	59113-36-9	Sakamoto Yakuhin Kogyo Co., Ltd.
86.	Polyglycerin #310	Polyglycerin #310	25618-55-7	Sakamoto Yakuhin Kogyo Co., Ltd.
87.	Distearyl Ether	Cosmacol® SE	6297-03-6	Sasol Germany GmbH
88.	Caprylyl Glyceryl Ether	Caprylyl Glyceryl Ether	10438-94-5	AKos Consulting & Solutions
89.	Chimyl Alcohol	Chimyl Alcohol	506-03-6	Nikko Chemicals Co., Ltd.
90.	Dipentaerythrityl Hexacaprylate/Hexacaprate	Liponate® DPC-6	68130-24-5	Lipo Chemicals, Inc.

TABLE 4(b)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
91.	Morpholine	394467 ALDRICH	110-91-8	Sigma-Aldrich (UK)
92.	Dimethyl Oxazolidine	OXABAN™-A	51200-87-4	The Dow Chemical Company
93.	Ethyl Hydroxymethyl Oleyl Oxazoline	4-Oxazolemethanol	68140-98-7	Angene Chemical
94.	Methyl Hydroxymethyl Oleyl Oxazoline	Adeka Nol GE-RF	14408-42-5	Adeka Corporation
95.	Pramoxine HCl	OriStar PMHCL	637-58-1	Orient Stars LLC
96.	Allantoin Ascorbate	Allantoin Ascorbate	57448-83-6	ABI Chem
97.	Stearamidopropyl Morpholine Lactate	Mackalene™ 326	55852-14-7	Rhodia Inc.
98.	Dioxolane	Elcotal DX	646-06-0	Lambiotte & CIE S.A.
99.	Glycerol Formal	Glycerol Formal	5464-28-8	Sigma Aldrich (UK)
100.	Stearamidopropyl Morpholine	Mackine 321	55852-13-6	Rhodia Inc.
101.	2,4,6-Tris[bis(methoxymethyl)amino]-1,3,5-triazine	Poly(melamine-co-formaldehyde) methylated	68002-20-0	Sigma-Aldrich (UK)
102.	Poloxamine 1307	Pluracare® 1307	11111-34-5	BASF
103.	Nonoxynol-8	Igepal® CO-610	27177-05-5	Rhodia Inc.
104.	Nonoxynol-10	Igepal® CO-710	27177-08-8	Rhodia Inc.
105.	Octoxynol-10	Nikkol OP-10	2315-66-4	Nikko Chemicals Co., Ltd.
106.	Nonoxynol-9	Igepal® CO-630	68987-90-6	Rhodia Inc.
107.	Nonoxynol-9 Iodine	Nonoxynol-9 iodine	94349-40-3	Angene Chemical
108.	Octylphenoxy poly(ethyleneoxy)ethanol, branched	Igepal® CA-630	68987-90-6	Rhodia Inc.
109.	Sodium Octoxynol-2 Ethane Sulfonate	Triton™ X-200	55837-16-6	The Dow Chemical Company
110.	Benzylhemiformal	Preventol D2	14548-60-8	Lanxess Corporation
111.	Nonoxynol-2	Igepal® CO-210	27176-93-8	Rhodia Inc.
112.	Octoxynol-3	Igepal® CA-420	2315-62-0	The Dow Chemical Company
113.	Nonoxynol-3	Marlophen NP 3	27176-95-0	Sasol Germany GmbH
114.	Alkoxylated Alcohols	Alkasurf NP-4	7311-27-5	Rhodia Inc.
115.	Nonoxynol-3	Triethylene Glycol Mono(p-nonylphenyl) Ether	51437-95-7	Santa Cruz Biotechnology
116.	Nonoxynol-7	Lowenol 2689	27177-03-3	Jos. H. Lowenstein & Sons, Inc.
117.	Nonoxynol-6	Igepal® CO-530	27177-01-1	Rhodia Inc.
118.	Nonoxynol-5	Igepal® CO-520	20636-48-0	Rhodia Inc.
119.	Nonoxynol-5	Igepal® CO-520	26264-02-8	Rhodia Inc.
120.	Nonoxynol-4	Alkasurf NP-4	27176-97-2	Rhodia Inc.
121.	Polyglyceryl-10 Trioleate	Nikkol Decaglyn 3-OV	102051-00-3	Nikko Chemicals Co., Ltd.

TABLE 4(b)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
122.	Polyglyceryl-10 Dioleate	Nikkol Decaglyn 2-O	33940-99-7	Nikko Chemicals Co., Ltd.
123.	Polyglyceryl-10 Tetraoleate	Caprol 10G40	34424-98-1	Abitec Corporation
124.	Polyglyceryl-10 Stearate	Nikkol Decaglyn 1-SV EX	79777-30-3	Nikko Chemicals Co., Ltd.
125.	Polyglyceryl-10 Oleate	S-Face O-1001 P	79665-93-3	Sakamoto Yakuhin Kogyo Co., Ltd.
126.	Polyglyceryl-10 Myristate	Nikkol Decaglyn 1-MV EX	87390-32-7	Nikko Chemicals Co., Ltd.
127.	Dermofeel ® G 10 L	Dermofeel ® G 10 L	34406-66-1	Dr. Straetmans
128.	Polyglyceryl-6 Laurate	NIKKOL Hexaglyn 1-L	51033-38-6	Chemical Navi
129.	Polyglyceryl-6 Isostearate	S-Face IS-601 P	126928-07-2	Sakamoto Yakuhin Kogyo Co., Ltd.
130.	Choleth-10	Emalex CS-10	27321-96-6	Nihon Emulsion Company, Ltd.
131.	Steareth-10 Allyl Ether/Acrylates Copolymer	Salcare ® SC80	109292-17-3	BASF
132.	Polyvinyl Stearyl Ether	Giovarez ®1800	9003-96-7	Phoenix Chemical, Inc.
133.	Dicetyl Ether	Cosmacol Ether 16	—	Sasol Germany GmbH
134.	PPG-23-Steareth-34	Unisafe 34S-23	9038-43-1	Pola Chemical Industries, Inc.
135.	Stearoxypropyl Dimethylamine	Farmin DM E-80	17517-01-0	Kao Corp.
136.	Distearyl Ether	Cosmacol SE	6297-03-6	Sasol Germany GmbH
137.	Polyquaternium-10	AEC Polyquaternium-10	55353-19-0	A & E Connock (Perfumery & Cosmetics) Ltd.
138.	Octyl ether	Diocetyl ether	629-82-3	Sigma Aldrich (UK)
139.	Ethyl Ether	Diethyl Ether	60-29-7	EMD Chemicals
140.	Methyl Hexyl Ether Ethers	methyl hexyl ether	4747-07-3	TCI AMERICA
141.	Ceteth-12	Emalex 112	94159-75-8	Nihon Emulsion Company, Ltd.
142.	Ceteth-10 or cetyl alcohol POE-10	Jeecol CA-10	14529-40-9	Jeen International
143.	Steareth-10	Jeecol SA-10	13149-86-5	Jeen International
144.	Nonaethylene glycol monododecyl ether	Nonaethylene glycol monododecyl ether	3055-99-0	Sigma Aldrich (UK)
145.	Oleth-10	Brij ® O10	71976-00-6	Croda, Inc.
146.	Oleth-10	Brij ® O10	24871-34-9	Croda, Inc.
147.	PEG-12	Carbowax™ PEG 600	6790-09-6	The Dow Chemical Company
148.	PEG-9	Sabopeg 400	3386-18-3	Sabo s.p.a.

TABLE 4(b)-continued

Substantially Non-Odorless Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
149.	PEG-10	DECAETHYLENE GLYCOL	5579-66-8	MolPort
150.	PEG-6	Carbowax™ PEG 300	2615-15-8	The Dow Chemical Company
151.	Glycerol propoxylate	Glycerol propoxylate	25791-96-2	Sigma Aldrich (UK)
152.	Glycerol ethoxylate	Glycerol ethoxylate	31694-55-0	Sigma Aldrich (UK)
153.	Laureth-8	AEC Laureth-8	3055-98-9	A & E Connock (Perfumery & Cosmetics) Ltd.
154.	Oleth-8	Emalex 508	27040-03-5	Nihon Emulsion Company, Ltd.
155.	Laureth-7	Alfonic 1216CO-7 Ethoxylate	3055-97-8	Sasol North America, Inc.
156.	Steareth-7	Polyoxyethylene (7) stearyl ether	66146-84-7	Sigma Aldrich
157.	Deceth-6	Alfonic 1012-6.0 Ethoxylate	5168-89-8	Sasol North America, Inc.
158.	Steareth-6	Emalex 606	2420-29-3	Nihon Emulsion Company, Ltd.
159.	Hexaethylene glycol monododecyl ether	Hexaethylene glycol monododecyl ether	3055-96-7	Sigma-Aldrich (UK)
160.	Hexaethylene glycol monohexadecyl ether	Hexaethylene glycol monohexadecyl ether	5168-91-2	Sigma-Aldrich (UK)
161.	Beheneth-5	Nikkol BB-5	136207-49-3	Nikko Chemicals Co., Ltd.
162.	Myreth-5	Isoxal 12	92669-01-7	Vevy Europe SpA
163.	Steareth-5	Jeecol SA-5	71093-13-5	Jeen International Corporation
164.	Ceteth-5	Emalex 105	4478-97-1	Nihon Emulsion Company, Ltd.
165.	Oleth-5	Brij® O5	5353-27-5	Croda, Inc.
166.	Laureth-5	Safol® 23E5 Ethoxylate	3055-95-6	Sasol North America, Inc.
167.	Steareth-4	Jeecol SA-4	59970-10-4	Jeen International Corporation
168.	Laureth-4	Brij® L4	5274-68-0	Croda, Inc.
169.	Myreth-4	Homulgator 920 G	39034-24-7	Grau Aromatics GmbH & Company KG
170.	Ceteth-4	Procol CA-4	5274-63-5	Protameen Chemicals
171.	Oleth-4	Chemal OA-4	5353-26-4	Chemax, Inc.
172.	Oleth-4	Chemal OA-4	103622-85-1	Chemax, Inc.
173.	Polyimide-1	Aquaflex™ XL-30	497926-97-3	Chemwill
174.	Polymethoxy Bicyclic Oxazolidine	Caswell No. 494CA	56709-13-8	Angene Chemical
175.	Hydroxymethyl Dioxoazabicyclooctane	Zoldine™ ZT	6542-37-6	Angus Chemical Company
176.	Dihydro-7a-ethyloxazol[3,4-c]oxazole	5-Ethyl-1-aza-3,7-dioxabicyclo[3.3.0]octane	7747-35-5	Sigma Aldrich (UK)

TABLE 4(b)-continued

Substantially Non-Odororous Fragrance Modulators				
No.	Chemical or INCI Name	Trade Name	CAS Number	Supplier
177.	Dibenzylidene Sorbitol	Disorbene ®	32647-67-9	Roquette America, Inc.
178.	Dimethyldibenzylidene Sorbitol	Millad ® 3988	135861-56-2	Milliken Chemicals
179.	Laureth-2	Alfonic 1216CO-2 Ethoxylate	3055-93-4	Sasol North America, Inc.
180.	2-(2-Butoxyethoxy)ethyl (6-propylpiperonyl) ether	Piperonyl Butoxide	51-03-6	Sigma-Aldrich (UK)
181.	Menthone Glycerin Acetal	Frescolat ® MGA	63187-91-7	Symrise
182.	Propylene Glycol Caprylate	Mackaderm PGC	68332-79-6	Rhodia Inc.
183.	Diethoxynonadiene	SBB016951	67674-36-6	Ambinter
184.	Menthoxopropanediol Alcohols	Coolact ® 10	87061-04-9	Takasago International Corporation
185.	2-Diphenylmethoxy-N,N-dimethylethylamine hydrochloride	Diphenhydramine HCl	147-24-0	Sigma-Aldrich (UK)
186.	3-((2-ethylhexyl)oxy)propane-1,2-diol	—	70445-33-9	—
187.	3-((2-propylheptyl)oxy)propane-1,2-diol	—	—	—
188.	1-amino-3-((2-ethylhexyl)oxy)propan-2-ol	—	99509-00-9	—
189.	1-(1-Methyl-2-propoxyethoxy)-2-propanol	Di(propylene glycol) propyl ether	29911-27-1	Sigma Aldrich (UK)

[0211] The compounds, as described above in Tables 4(a) and 4(b), act as a substantially non-odorous fragrance modulator of the perceived fidelity and/or longevity of the fragrance profile of the composition of the present invention. For example, the substantially non-odorous fragrance modulators, with a fragrance component having a diamond construction, act to prolong the duration during which the fragrance profile, preferably the characters attributable from the moderate and high volatile fragrance materials, can be perceived as compared to a control composition in the absence of the modulators or having the classical fragrance pyramid three-tiered structure. As another example, the substantially non-odorous fragrance modulators, with a fragrance component having a diamond construction, can improve the fidelity of the fragrance profile, preferably the characters attributable from the moderate and high volatile fragrance materials, such that it remains significantly the same from initial impression to the end as compared to a control composition in the absence of the modulators or having the classical fragrance pyramid three-tiered structure. While not wishing to be bound by theory, it is believed that the substantially non-odorous fragrance modulators associate to the fragrance materials and retard evaporation.

TEST METHODS

[0212] The following assays set forth must be used in order that the invention described and claimed herein may be more fully understood.

Test Method 1

Determining Vapor Pressure

[0213] In order to determine the vapor pressure for the fragrance materials, go to the website [hups://scifinder.cas.org/scifindedview/scifinder/scifinderExplorejsf](https://scifinder.cas.org/scifindedview/scifinder/scifinderExplorejsf)

and follow these steps to acquire the vapor pressure.

[0214] 1. Input the CAS registry number for the particular fragrance material.

[0215] 2. Select the vapor pressure from the search results.

[0216] 3. Record the vapor pressure (given in Torr at 25° C.).

[0217] SciFinder uses Advanced Chemistry Development (ACD/Labs) Software Version 11.02. (© 1994-2013). If the CAS number for the particular fragrance material is unknown or does not exist, you can utilize the ACD/Labs reference program to directly determine the vapor pressure. Vapor Pressure is expressed in 1 Torr, which is equal to 0.133 kilopascal (kPa).

Test Method 2

Olfactory Tests

[0218] In order to show the effect of the substantially non-odorous fragrance modulators and fragrance component having a diamond construction on the perception of fragrance profile in a composition of the present invention, test compositions are made, as described in the Example section, and given to panelists to evaluate.

[0219] At the testing facility, 50 µL samples of the compositions and the controls are applied to glass slides and placed on a hot plate at 32° C. to represent skin temperature for varying durations. It is important that glass slides of samples that are to be later compared are prepared at the same time. The panelists are asked to evaluate the perceived fragrance profile (intensity and/or character) of each glass slide sample at a given time point. Slides are presented coded so that their identity is not known by the panelists.

Within a given time point panelists evaluate the slides in a random order and are able to revisit their assessment as they work through the slides at that time point. Their assessments are recorded. In the subsequent analysis, the data for strength and character comparisons are drawn from the independent assessments carried out at a given time point. Only when using the character difference scale below are any 2 products physically directly compared to each other. Panelists are selected from individuals who are either trained to evaluate fragrances according to the scales below or who have experience of fragrance evaluation in the industry. Typically, around 6-10 panellists are used to evaluate a given product and its control.

[0220] (a) Fragrance Intensity:

[0221] The panelists are asked to give a score on a scale of 0 to 5 for perceived fragrance intensity according to the odour intensity scale set out in Table 4 herein below.

TABLE 4

Odour Intensity Scale	
Score	Fragrance Intensity
0	None
1	Very Weak
2	Weak
3	Moderate
4	Strong
5	Very Strong

[0222] (b) Fragrance Character:

[0223] The panelists are asked to assess the fragrance character in one of 2 ways:

[0224] i) a score on a scale of 0 to 3 for the dominance of particular characters that are relevant to that particular fragrance, e.g.: fresh, green, watery, floral, rose, muguet, fruity, apple, berry, citrus, creamy, woody, balsamic, amber, musk just to name a few, according to the odour grading scale set out in Table 5(i) herein below;

[0225] ii) a score on a scale of 1 to 5 for changes in the perceived fragrance profile change for the test compositions versus the controls according to the odour grading scale set out in Table 5(ii) herein below.

TABLE 5(i)

Character Dominance Odour Grading Scale	
Score	Fragrance Character Dominance
0	Not noticeable
1	Slight presence of the character
2	Moderate presence of the character
3	Dominance of the character

TABLE 5(ii)

Character Difference Odour Grading Scale	
Score	Fragrance Profile Change
1	Fragrance profile is unchanged, i.e., no difference between the sample vs. the control.
2	Slight fragrance profile change when compared directly with the control.

TABLE 5(ii)-continued

Character Difference Odour Grading Scale	
Score	Fragrance Profile Change
3	Moderate fragrance profile but similar character to the control,
4	Large difference in fragrance profile from the control.
5	Total difference in the fragrance profile from the control.

[0226] The results of the panelists are averaged and then analysed using Analysis of Variance methods. The model treats the subject as a random effect and looks at the impact of product, time and the interaction between product and time. From the analysis the least square means for the product and time interaction are obtained. These means (as well as their confidence intervals) are then plotted to enable comparisons between products at each time point. It should be noted that the confidence levels plotted are intended as a guide, and not as a statistical comparison, as they do not take into account that multiple testing has been performed. As well as a graphical assessment, statistical comparisons between the two products at each of the time points are performed with a Sidak correction for multiple comparisons. The p-values for the product differences are obtained, with p-values <0.05 indicating a statistical difference between the two products at 5% significance (or 95% confidence).

Test Method 3

Analytical Evaporation Tests

[0227] The following test is carried out to demonstrate the improved or enhanced longevity of a fragrance profile of a composition of the present invention vs. a control. In particular, the test measures the effect of a substantially non-odorous fragrance modulator on the evaporation rate of one or more fragrance materials (e.g., 10 PRMs) formulated in a composition. The evaporation response of the fragrance materials to the modulator, as a function of time, is measured through the use of gas chromatography ("GC").

[0228] 1. A test composition may comprise a substantially non-odorous fragrance modulator (any one of the modulators as disclosed in Tables 4(a) and 4(b)) with either: (i) a fragrance material (any one of the moderate volatile fragrance materials as disclosed in Table 2 and high volatile fragrance materials as disclosed in Table 3), or (ii) a blend of fragrance materials from Tables 2 and 3 (as disclosed as Fragrance Example 6 in Table 11). The test compositions also contain high purity ethanol, such as Hayman 100% EP/BP grade, and deionized water. Samples test compositions are provided in Tables 19(a)-19(b). All of the ingredients are admixed until evenly distributed in the test compositions.

[0229] 2. A control composition to the test composition described in 1 above, without the substantially non-odorous fragrance modulator is made in a similar manner to Step 1, except that the missing substantially non-odorous modulator is replaced by deionized water. Sample control compositions are provided in Tables 19(a)-19(b).

[0230] 3. An internal standard is needed to correct for variations of the amount of composition dispensed in the evaporation test as well as loss during the GC analysis. The internal standard has a vapor pressure of

less than 0.001 Torr (0.000133 kPa) at 25° C. and is soluble in the composition and fragrance material. A suitable non-limiting example of an internal standard is triethyl citrate. The internal standard and fragrance material are admixed until evenly distributed at a level of 90 to 95 parts by weight of fragrance material and the required amount of internal standard to reach 100 parts. This mixture is then used to prepare the sample compositions in Step 1 and 2. Alternatively, the internal standard and test or control composition are admixed until evenly distributed at a level of 99 to 99.75 parts by weight of composition and the required amount of internal standard to reach 100 parts. This resultant solution is used in subsequent steps.

[0231] 4. A hotplate is set to a temperature of 32° C. An aluminum container, such as TA Instruments T-Zero™ pan, is placed on the hotplate. 20 μ L of the test or control composition is introduced in the aluminum container using a micropipette. Alternatively, the aluminum container may be filled with the test or control composition to its full capacity. The time at which this takes place is determined to be time zero (i.e., T=0). Multiple aluminum containers are prepared and left at the set temperature for pre-determined periods of time, such as for example 30 mins, 1 hr, 2 hrs, 3 hrs, 4 hrs, 5 hrs, 6 hrs, 8 hrs and up to 12 hrs.

[0232] 5. The aluminum container is removed from the hotplate at the end of the pre-determined time period and transferred by being inserted into a 4 mL glass vial already containing at least 2 mL of highly volatile solvent, such as high purity ethanol or hexane.

[0233] 6. The glass vial is mixed using a Heidolph multi REAX shaker, or equivalent, for 5 to 10 mins to extract the fragrance materials into the solvent phase. 1.5 mL of the resultant solution is transferred to a 2 mL GC vial.

[0234] 7. The GC vial is analysed on an Agilent GC system 6890 equipped with an autosampler, or equivalent. A GC column such as a DB-5MS, Rxi-5 SilMS model or equivalent phase, with a length of 30 m, an inner diameter of 0.25 mm and a film thickness of 1 μ m is used. The GC parameters are set to the values indicated as follows:

TABLE 5(iii)

GC Parameters	
Injector temperature:	270° C.
Initial gas velocity:	25 to 40 cm/sec (for Helium as the carrier gas)
Initial oven temperature:	50° C.
Temperature ramp:	8° C./min
Final oven temperature:	310° C.

[0235] Gas chromatography with flame ionization detection (“FID”) or with mass spectrometry (“MS”) can be used for the identification and quantification of fragrance material in the compositions. Either detection system can be used in conjunction with GC. The column dimensions as well as GC settings described in this method, such as injector temperature, carrier gas velocity, temperature ramp and final oven temperature can be adjusted to optimize the response of the fragrance material and internal standard being monitored. The detection system settings,

such as FID gas flows and temperature or MS parameters, should be optimized by a trained analyst to enable the precise detection and quantification of the analytes of interest.

[0236] 8. The peak area of the fragrance material and internal standard are recorded. The peak area ratio of the fragrance material and the internal standard is calculated at each time point for each sample composition. The % of non-evaporated fragrance material remaining from T=0 is calculated at each time point for each sample composition. The % fragrance material remaining in each composition is plotted to give an evaporation profile over time. This is done for both the test and control compositions. Significance is determined by comparison of the evaporation profile for the same fragrance material or same fragrance mixture in the test and control compositions.

Test Method 4

Analytical Headspace Tests

[0237] The following test is carried out to demonstrate the character retention over time of a fragrance composition of the present invention vs. a control. It is necessary for the test and control samples to be run at approximately the same time to ensure that ambient conditions are the same. The test measures the presence of one or more fragrance materials in the headspace formed in a sealed vial by the test composition, after set evaporation times. The fragrance profile in the headspace is measured at specific time points through the use of headspace (“HS”) gas chromatography (“GC”).

[0238] 1. The test and control compositions as described in the Example section are used for the evaluation.

[0239] 2. Capillaries of about 2 cm to 3.5 cm, with one sealed end are cut from a Sigma Aldrich “Stuart™ melting point tube” product code Z673269, or equivalent. A suitable fixed volume chosen between 50 and 200 μ L of the composition is pipetted into the well of a VWR Tissue Culture 96 F well plate, or equivalent. The sealed end of the glass capillary is dipped into the filled well and left for at least 15 secs to wet the surface of the glass. Care must be taken not to contact the glass capillary with the sides of the well by maintaining it straight and approximately in the center of the well.

[0240] 3. The glass capillary is then removed from the well and inverted or transferred onto a stable surface or into a holder and allowed to evaporate at ambient conditions for a set period of time. A windshield may be used to reduce high air turbulence.

[0241] 4. The glass capillary is then introduced into an empty 20 mL HS vial, which is immediately closed with a PTFE cap. The time at which this takes place is determined to be time T=initial (i.e., T=10 mins)

[0242] 5. Multiple glass capillaries are prepared in the same way and left to evaporate at ambient temperature for pre-determined periods of time, such as for example 10, 15, 30 mins, 1 hr, 2 hrs, 3 hrs, 4 hrs, 5 hrs, and up to 6 hrs, before being introduced to the headspace vial and sealed.

[0243] 6. The HS vial is then analysed on an Agilent GC system 6890 equipped with a Gerstel MPS 2 autosampler, or equivalent, capable of performing SPME injections. A SPME fiber assembly DVB/CAR/PDMS (50/

30 μm , 1 cm length) is required. A GC column such as a DB-5MS, ZB-SMSi models, or equivalent phase, with a length of 30 m, an inner diameter of 0.25 mm and a film thickness of 1 μm is used.

[0244] 7. The SPME HS parameters are set to the values indicated as follows:

TABLE 5(iv)

SPME Parameters	
Incubation chamber temperature:	40° C.
Incubation time:	20 mins
Agitation of sample	250 RPM
Extraction time	5 mins
Desorption time	2 mins

[0245] 8. The GC parameters are set to the values indicated as follows:

TABLE 5(v)

GC Parameters	
Injector temperature:	270° C.
Initial gas velocity:	20 to 40 cm/sec (for Helium as the carrier gas)
Initial oven temperature:	45° C. with 2 mins Hold Time
Temperature ramp 1:	30° C./min
Temperature 1:	80° C.
Temperature ramp 2:	8° C./min
Final temperature:	300° C.

[0246] Gas chromatography with flame ionization detection ("FID") or with mass spectrometry ("MS") can be used for the identification and quantification of fragrance material in the compositions. Either detection system can be used in conjunction with GC. The column dimensions as well as GC settings described in this method, such as injector temperature, carrier gas velocity, temperature ramp and final oven temperature can be adjusted to optimize the response of the fragrance material being monitored. The detection system settings, such as FID gas flows and temperature or MS parameters, should be optimized by a trained analyst to enable the precise detection and identification of the analytes of interest.

[0247] 9. A qualitative assessment of the chromatograms obtained is performed by comparing the peak height of the fragrance materials and overall chromatogram at time T=10 mins to other time points. A dotted line is drawn around an estimated retention time where fragrance materials with a vapour pressure of 0.001 Torr or less (0.000133 kPa or less) elute during the analysis. The difference between the peaks present at each measured time point for the test and control compositions provides evidence of the retention of the character of the fragrance over time.

[0248] 10. This test set-up is designed to enable the collection of the headspace in a manner that does not saturate the SPME fiber. If the fiber is saturated it does not provide an accurate analysis of the headspace composition. Therefore the quantity of liquid and the evaporation surface area are very different from those in the olfactive evaluation of the same samples. For this reason it is not possible to compare directly the evaporation time frames used in the 2 experiments. It is expected that the evaporation profile is much faster in this headspace experiments compared to the olfactive evaluations.

EXAMPLES

[0249] The following examples are provided to further illustrate the present invention and are not to be construed as limitations of the present invention, as many variations of the present invention are possible without departing from its spirit or scope.

Example 1

Fragrance Oils

[0250] Fragrance examples 1, 2, 3, 4b and 5b are provided below in Tables 6, 7, 8, 9 and 10, respectively, as non-limiting examples of formulations of fragrance materials intended to form the fragrance component of the compositions of the present invention. The exemplary formulations of the fragrance materials span the range from "simple accords" (less than 10 fragrance materials) to "complex fragrances" (greater than 30 fragrance materials). Typically, full bodied fragrance compositions do not comprise less than about 30 fragrance materials.

[0251] Fragrance examples 4a and 5a provided in Table 9 and 10, respectively, below are examples of traditional formulations of fragrance materials that fall outside the scope of the present invention.

[0252] Fragrance example 6 provided in Table 11 below as an example of a formulation of volatile fragrance materials.

[0253] Fragrance examples 7 and 8 are provided in Tables 12 and 13 below as examples of a formulation of fragrance materials intended to form the fragrance component that fall outside the scope of the present invention.

[0254] Fragrance examples 9 to 16 are provided in Tables 14 and 15 below as examples of formulations of fragrance materials containing higher than 30 wt % of the low volatile fragrance materials.

[0255] Fragrance examples 17 and 18 are provided in Tables 16 and 17 below as comparative samples of formulations of fragrance materials intended to form the fragrance component.

[0256] The following fragrance formulations are made by mixing the listed ingredients in the listed proportions (wt %) at room temperature, wherein the wt % is relative to the total weight of the fragrance component.

TABLE 6

Fragrance Example 1 (Fresh Floral Accord - 10 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
Benzyl acetate	140-11-4	0.1640	10.8
Linalool	78-70-6	0.0905	9.8
Phenethyl alcohol	60-12-8	0.0741	15.7
Indole	120-72-9	0.0298	1.0
α -Terpineol	98-55-5	0.0283	2.9
Geranyl acetate	105-87-3	0.0256	4.9
Cymal	103-95-7	0.00881	5.9
Hydroxycitronellal	107-75-5	0.00318	22.4
Majantol	103694-68-4	0.00224	16.6
Hexyl cinnamic aldehyde	101-86-0	0.000697	10.0
Total			100.00

TABLE 7

Fragrance Example 2 (Fresh Male Accord - 13.51 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
d-Limonene	5989-27-5	1.540000	10.0
Dihydromyrcenol	18479-58-8	0.166000	10.0
Boisiris	68845-00-1	0.013500	6.5
Canthoxal	5462-06-6	0.010200	8.0
Helional	1205-17-0	0.002700	10.0
Kephalis	36306-87-3	0.002690	20.0
Majantol	103694-68-4	0.002240	15.5
Javanol®	198404-98-7	0.000902	5.0
Galaxolide®*	1222-05-5	0.000414	7.5
Isopropyl Myristate	110-27-0	—	7.5
Total			100.00

*Supplied at 50% in Isopropyl myristate.

TABLE 8

Fragrance Example 3 (Sweet Dream 18 Fragrance - 11.15 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
Prenyl acetate	1191-16-8	3.99000000	0.100
Manzanate	39255-32-8	2.91000000	0.200
Hexyl acetate	142-92-7	1.39000000	0.700
cis-3-Hexenyl acetate	3681-71-8	1.22000000	0.200
Benzaldehyde	100-52-7	0.97400000	0.200
Lifffarome	67633-96-9	0.72100000	0.150
Hexyl isobutyrate	2349-07-7	0.41300000	0.055
Dihydromyrcenol	18479-58-8	0.16600000	2.500
Benzyl acetate	140-11-4	0.16400000	0.700
Linalyl acetate	115-95-7	0.11600000	2.500
Verdox	88-41-5	0.10300000	4.000
Phenethyl alcohol	60-12-8	0.07410000	8.000
Rositol	215231-33-7	0.02990000	1.500
alpha-Terpineol	98-55-5	0.02830000	1.500
Geranyl acetate	105-87-3	0.02560000	1.500
Rhodinol	141-25-3	0.01970000	0.700
Givescone	57934-97-1	0.01710000	0.700
Methyl anthranilate	134-20-3	0.01580000	0.050
Ysamber K	154171-77-4	0.01470000	1.000
alpha-Ionone	127-41-3	0.01440000	3.000
Citronellyl acetate	150-84-5	0.01370000	0.500
cis-3-hexenyl-cis-3-hexenoate	61444-38-0	0.01220000	0.200
Cinnamic alcohol	104-54-1	0.01170000	0.100

TABLE 8-continued

Fragrance Example 3 (Sweet Dream 18 Fragrance - 11.15 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
delta-damascone	57378-68-4	0.01020000	0.200
Citronellyloxyacetaldehyde	7492-67-3	0.00967000	0.100
Cymal	103-95-7	0.00881000	0.500
Floralozone	67634-15-5	0.00808000	0.100
Ethylmethylphenylglycidate	77-83-8	0.00571000	0.200
Florosa Q	63500-71-0	0.00557000	3.000
Ethyl linalool	10339-55-6	0.00520000	6.400
Pivarose	67662-96-8	0.00484000	2.500
Hydroxycitronellal	107-75-5	0.00318000	7.500
Methyl Ionone gamma-Undecalactone	7779-30-8	0.00286000	4.000
Kephalis	36306-87-3	0.00269000	5.000
Cashmeran	33704-61-9	0.00269000	1.000
Magnolan	27606-09-3	0.00251000	3.000
Majantol	103694-68-4	0.00224000	6.900
Brahmanol	72089-08-8	0.00154000	3.000
Coumarin	91-64-5	0.00130000	0.500
Glycolierral	68901-32-6	0.00121000	0.100
Raspberry ketone	5471-51-2	0.00106000	0.100
Top Mango base ³	—	—	0.500
Cherry base ³	—	—	0.200
Cassis base ³	—	—	0.300
Bergamot Oil ⁴	—	—	6.000
Prunella base ³	—	—	0.500
Hexyl cinnamic aldehyde	101-86-0	0.00069700	1.500
Sandalore	65113-99-7	0.00062500	3.000
Dupical	30168-23-1	0.00044100	0.005
Galaxolide® ¹	1222-05-5	0.00041400	1.500
Ebanol	67801-20-1	0.00028100	2.000
Helvetolide	141773-73-1	0.00005790	2.000
Warm Milk base ⁵	—	—	0.200
Vanilla Absolute ^{2, 6}	—	—	0.100
Isopropyl Myristate	—	—	1.500
Dipropylene Glycol	—	—	6.040
Total			100.00

¹Supplied at 50% in IPM.²Supplied at 50% in DiPG.³Proprietary bases that contain a mixture of perfume raw materials, judged to be of high volatility for the purposes of calculating % of low volatility PRMs.⁴Natural oils or extracts that contain a mixture of perfume raw materials, judged to be of high volatility for the purposes of calculating % of low volatility PRMs.⁵Proprietary bases that contain a mixture of perfume raw materials, judged to be of low volatility for the purposes of calculating % of low volatility PRMs.⁶Natural oils or extracts that contain a mixture of perfume raw materials, judged to be of low volatility for the purposes of calculating % of low volatility PRMs.

TABLE 9

Fragrance Examples 4a and 4b ("Traditional Floral Magnifica" Example 4a - 37 wt % of Low Volatile Fragrance Materials; 55 wt % of Moderate Volatile Fragrance Materials; 7 wt % of High Volatile Fragrance Materials; and "Diamond Floral Magnifica" Example 4b - 13 wt % of Low Volatile Fragrance Materials; 80 wt % of Moderate Volatile Fragrance Materials; 7 wt % of High Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)	
			Example 4a (Traditional)	Example 4b (Diamond)
Beta Gamma	928-96-1	2.126000	0.20	0.20
Hexenol				
Cis 3 Hexenyl Acetate	3681-71-8	1.219000	0.30	0.30
Benzyl Acetate	140-11-4	0.16400000	3.01	3.01
Lifffarome	67633-96-9	0.721000	0.20	0.20

TABLE 9-continued

Fragrance Examples 4a and 4b ("Traditional Floral Magnifica" Example 4a - 37 wt % of Low Volatile Fragrance Materials; 55 wt % of Moderate Volatile Fragrance Materials; 7 wt % of High Volatile Fragrance Materials; and "Diamond Floral Magnifica" Example 4b - 13 wt % of Low Volatile Fragrance Materials; 80 wt % of Moderate Volatile Fragrance Materials; 7 wt % of High Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)	
			Example 4a (Traditional)	Example 4b (Diamond)
Ligustral Or Triplal	68039-49-6	0.578000	0.10	0.10
Methyl Pamplemousse	67674-46-8	0.214000	0.40	0.40
d-Limonene	5989-27-5	1.54000000	3.01	3.01
Phenyl Acetaldehyde ¹		0.368000	0.0002	0.0002
Total High Volatile Fragrance Materials			7.2%	7.2%
Alpha Damascone	24720-09-0	0.008300	0.04	0.06
Ethyl 2,4- Decadienoate	3025-30-7	0.009540	0.20	0.20
Ambrotonat	6790-58-5	0.009340	2.00	2.01
cis-3-Hexenyl cis- 3-Hexenoate	61444-38-0	0.012200	0.10	0.10
Citronellol	106-22-9	0.032900	4.01	4.01
Cyclemax	7775-00-0	0.018200	0.40	0.40
Cyclo Galbanate	68901-15-5	0.003230	0.10	0.10
Cymal	103-95-7	0.008810	0.90	1.51
Dimethyl Benzyl Carbinyl Butyrate	10094-34-5	0.001680	0.50	0.50
Ethyl 2,4- Decadienoate	3025-30-7	0.00954000	0.20	0.20
Ethyl Linalool	10339-55-6	0.005200	7.23	12.04
Florol	63500-71-0	0.005570	6.43	10.71
Gamma Decalactone	706-14-9	0.008520	0.20	0.20
Geraniol	106-24-1	0.013300	3.01	5.02
Geranyl Acetate	105-87-3	0.009760	2.01	2.01
Helional	1205-17-0	0.002700	2.41	4.01
Heliotropin	120-57-0	0.010400	0.20	0.20
Hivernal	173445-65-3	0.00392000	0.20	0.20
Hydroxycitronellal	107-75-5	0.003180	2.41	4.01
Ionone Beta	14901-07-6	0.003080	0.24	0.40
Ionone Gamma	127-51-5	0.002820	1.81	3.01
Methyl Jasmal	18871-14-2	0.004340	5.02	5.02
Jasmolactone	32764-98-0	0.003550	0.20	0.20
Linalyl Propionate	144-39-8	0.026300	1.20	1.20
Magnolan 690304	27606-09-3	0.002510	3.01	5.02
Majantol	103694-68-4	0.002240	2.41	4.01
Para Hydroxy Phenyl Butanone	5471-51-2	0.001060	0.20	0.20
Phenyl Ethyl Alcohol	60-12-8	0.074100	3.01	5.02
Phenyl Hexanol	55066-48-3	0.006370	3.61	6.02
Undecavertol	81782-77-6	0.010700	2.01	2.01
Vanillin	121-33-5	0.001940	0.10	0.10
Total Moderate Volatile Fragrance Materials			55.4%	79.7%
Ambretone	37609-25-9	0.00003310	1.00	1.00
Ambrettolide	28645-51-4	0.00000139	1.00	1.00
Cis 3-Hexenyl Salicylate	65405-77-8	0.000246	1.51	0.50
Benzyl salicylate	118-58-1	0.00017500	10.79	1.51
Delta Muscenone	63314-79-4	0.00005650	1.00	1.00
Hedione HC	24851-98-7	0.000710	10.54	3.51
Iso-E Super ®	54464-57-2	0.00053800	10.54	3.51
Polysantol ®	107898-54-4	0.00011700	0.50	0.50
Total Low Volatile Fragrance Materials			36.9%	12.5%
Total			100	100

¹delivered as 1% in DPG.

TABLE 10

Fragrance Examples 5a and 5b ("Traditional Muguesia Magnifica" Example 5a - 37 wt % of Low Volatile Fragrance Materials; 54 wt % of Moderate Volatile Fragrance Materials; 9 wt % of High Volatile Fragrance Materials; and "Diamond Muguesia Magnifica" Example 5b - 13 wt % of Low Volatile Fragrance Materials; 76 wt % of Moderate Volatile Fragrance Materials; 11 wt % of High Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)	
			Example 5a (Tra- ditional)	Example 5b (Diamond)
Benzyl Acetate	140-11-4	0.304000	5.86	7.32
Benzyl Alcohol	100-51-6	0.158000	0.10	0.10
Beta Gamma Hexenol	928-96-1	2.126000	0.40	0.40
Cis 3 Hexenyl Acetate	3681-71-8	1.219000	0.20	0.20
Linalyl Acetate	115-95-7	0.077400	1.00	1.00
Methyl Phenyl Carbinyl Acetate	93-92-5	0.203000	0.32	0.40
d-Limonene	5989-27-5	1.54000000	1.00	1.00
Phenyl Acetaldehyde Dimethyl Acetal	101-48-4	0.000538	0.20	0.10
Total High Volatile Fragrance Materials			9.1%	10.5%
Cis Jasmone	488-10-8	0.020100	0.50	0.50
Cinnamic Alcohol	104-54-1	0.005720	0.20	0.20
Cinnamic Aldehyde	104-55-2	0.02650000	0.06	0.06
Citronellol	106-22-9	0.032900	4.01	5.01
Citronellyl Acetate	150-84-5	0.013700	3.21	4.01
Citronellyl	7492-67-3	0.009670	0.10	0.10
Oxyacetaldehyde				
Cyclenax	7775-00-0	0.018200	0.32	0.40
Cyclo Galbanate	68901-15-5	0.003230	0.20	0.20
Cymal	103-95-7	0.008810	1.61	2.01
Ethyl Linalool	10339-55-6	0.005200	8.03	10.03
Florhydral	125109-85-5	0.020700	0.16	0.20
Geraniol	106-24-1	0.013300	4.01	5.02
Geranyl Acetate	105-87-3	0.009760	3.21	4.01
Helional	1205-17-0	0.002700	4.01	5.02
Hydroxycitronellal	107-75-5	0.003180	3.21	4.01
Indol	120-72-9	0.029800	0.10	0.10
Jasmal	18871-14-2	0.004340	3.21	4.01
Majantol	103694-68-4	0.002240	3.21	4.01
Phenyl Ethyl Acetate	103-45-7	0.056400	0.40	0.40
Phenyl Ethyl Alcohol	60-12-8	0.074100	14.45	18.06
Florosa Q	63500-71-0	0.005570	0	9.03
Total Moderate Volatility Fragrance Materials			54.2%	76.4%
Ambrettolide	28645-51-4	0.000001	1.00	1.00
Cis-3-Hexenyl Salicylate	65405-77-8	0.000246	1.00	0.50
Benzyl Salicylate	118-58-1	0.00017500	16.61	2.51
Hedione ® Hc	24851-98-7	0.000710	8.03	4.01
Iso-E Super ®	54464-57-2	0.000538	10.03	5.02
Total Low Volatile Fragrance Materials			36.7%	13.0%
Total			100	100

TABLE 11

Fragrance Example 6 (10 Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
Tetra-Hydro Linalool	78-69-3	0.115	9.85
Terpinyl acetate	80-26-2	0.0392	12.21
Dimethyl Benzyl Carbinyl Acetate	151-05-3	0.0139	11.96
Dimethyl Benzyl Carbinol	100-86-7	0.0888	9.35
Phenyl Ethyl alcohol	60-12-8	0.074100	7.60
Laevo Carvone	6485-40-1	0.0656	9.35
Indole	120-72-9	0.0298	7.29
Ethyl Safranate	35044-59-8	0.0266	12.09
Indocolore	2206-94-2	0.0255	10.09
Eugenol	97-53-0	0.0104	10.21
Total			100.00

TABLE 12

Fragrance Example 7 (Fresh Floral GF 6-7 Accord - 40.14 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
Ligustral or Triplal	68039-49-6	0.578000	0.15
Benzyl acetate	140-11-4	0.164000	0.31
Verdox	88-41-5	0.103000	5.38
Phenethyl alcohol	60-12-8	0.074100	1.54
Indole	120-72-9	0.029800	0.02
Heliotropin gamma-	120-57-0	0.010400	1.23
Decalactone	706-14-9	0.008520	0.38
Florol	63500-71-0	0.005570	15.38
Ethyl linalool	10339-55-6	0.005200	26.15
Isoeugenol	97-54-1	0.005190	0.08
alpha-Irone	79-69-6	0.004190	1.54
Vanillin	121-33-5	0.001940	6.15
Dimethyl benzyl carbinyl butyrate	10094-34-5	0.001680	1.54
Methyl beta- naphthyl ketone	93-08-3	0.000957	0.77
Methyl dihydrojasmonate	24851-98-7	0.000710	30.60
Benzyl salicylate	118-58-1	0.000175	7.69
Polysantol	107898-54-4	0.000117	0.77
Lrg 201	4707-47-5	0.000029	0.31
Total			100.00

TABLE 13

Fragrance Example 8 (Traditional Floral Accord - 54.00 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
Benzyl acetate	140-11-4	0.1640	5.5
Linalool	78-70-6	0.0905	5.0
Phenethyl alcohol	60-12-8	0.0741	8.0
Indole	120-72-9	0.0298	0.5
α-Terpineol	98-55-5	0.0283	1.5
Geranyl acetate	105-87-3	0.0256	2.5
Cymal	103-95-7	0.00881	3.0
Hydroxycitronellal	107-75-5	0.00318	11.5

TABLE 13-continued

Fragrance Example 8 (Traditional Floral Accord - 54.00 wt % of Low Volatile Fragrance Materials)			
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Parts (wt %)
Majantol	103694-68-4	0.00224	8.5
Hexyl cinnamic aldehyde	101-86-0	0.000697	4.0
iso gamma super	68155-66-8	0.000565	12.50
Sandalore	65113-99-7	0.000625	18.75
Habanolide	111879-80-2	0.00000431	18.75
Total			100.00

TABLE 14

Fragrance Examples 9, 10, 11 and 12 (Traditional Flora Magnifica - Greater than 30 wt % of Low Volatile Fragrance Materials)				
Ingredients	Fragrance Example 9 Weight %	Fragrance Example 10 Weight %	Fragrance Example 11 Weight %	Fragrance Example 12 Weight %
Traditional Flora Magnifica ¹	86.96	83.33	74.07	68.97
Ethylene Brassylate	4.35	4.167	3.704	6.90
Methyl Dihydro Jasmonate	4.35	8.33	14.82	13.79
Iso E super	4.35	4.167	7.407	10.35
Total	100	100	100	100.00
Wt % Low Volatile Fragrance Materials	44.33	46.66	52.60	55.87
Wt % Moderate Volatile Fragrance Materials	49.57	47.50	42.22	39.31
Wt % High Volatile Fragrance Materials	6.09	5.83	5.18	4.83

¹ Fragrance Example 4a.

TABLE 15

Fragrance Examples 13, 14, 15 and 16 (Traditional Muguesia Magnifica - Greater than 30 wt % of Low Volatile Fragrance Materials)				
Ingredients	Fragrance Example 13	Fragrance Example 14	Fragrance Example 15	Fragrance Example 16
	Weight %	Weight %	Weight %	Weight %
Traditional Muguesia Magnifica ¹	86.96	83.33	74.07	68.97
Ethylene Brassylate	4.35	4.17	3.70	6.90
Methyl Dihydro Jasmonate	4.35	8.33	14.82	13.79
Iso E super	4.35	4.17	7.41	10.35
Total	100.00	100.00	100.00	100.00
Wt % Low Volatile Fragrance Materials	45.23	47.50	53.34	49.08
Wt % Moderate Volatile Fragrance Materials	46.96	45.00	40.00	37.24
Wt % High Volatile Fragrance Materials	7.83	7.50	6.67	6.21

¹ Fragrance Example 5a.

[0257] Fragrance example 17 (as disclosed in Table 16) is composed of 30.28 wt % of high volatile fragrance materials, 38.21 wt % of moderate volatile fragrance materials and 31.48 wt % of low volatile fragrance materials, wherein the wt % is relative to the total weight of the fragrance component.

TABLE 16

Fragrance Example 17 (Comparative Fragrance 1 - 31.48 wt % of Low Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Amount	
			Parts by Weight	Parts (wt %)
Limonene	5989-27-5	1.541	2576	30.04
Cis-3-Hexenol	928-96-1	1.039	21	0.24
Zestover ⁶	78-70-6	0.578	1	0.01
Linalol	78-70-6	0.0905	553	6.45
Aphermate ⁴ (10% DIPG) ⁷	25225-08-5	0.0678	7	0.08
Cyclosal	535-86-4	0.0311	35	0.41
Coranol	83926-73-2	0.0210	371	4.33
Sclareolate ®* ¹	319002-92-1	0.0196	630	7.35
3-Methoxy-7,7-dimethyl-10-methylene-bicyclo[4.3.1]decane	216970-21-7	0.0196	371	4.33
Cedramber ²	19870-74-8	0.0128	1050	12.24
Ambrox ®*	3738-00-9	0.00934	1	0.01
Decal	706-14-9	0.00852	21	0.24
Damascone Alpha* (10% DIPG) ⁷	24720-09-0	0.00830	9.1	0.11
(Methoxymethoxy)Cyclododecane	42604-12-6	0.00686	182	2.12
Lilial ®	80-54-6	0.00444	26	0.30
γ-Undecalactone*	104-67-6	0.00271	21	0.24
Calone ®* ³	28940-11-6	0.000831	50	0.58
Paradisone ⁵ ®*	24851-98-7	0.000710	1000	11.66

TABLE 16-continued

Fragrance Example 17 (Comparative Fragrance 1 - 31.48 wt % of Low Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Amount	
			Parts by Weight	Parts (wt %)
Galaxolide ® (70% MIP Extra) ⁷	1222-05-5	0.000414	700	8.16
Exaltanone	14595-54-1	0.0000964	950	11.08
Total			8575.10	100 wt %

*origin: Firmenich SA (Geneva, Switzerland).

¹ Propyl (S)-2-(1,1-dimethylpropoxy)propanoate.

² 8-Methoxy-2,6,6,8-tetramethyl-tricyclo[5.3.1.0(1,5)]undecane.

³ 7-Methyl-2H,4H-1,5-benzodioxepin-3-one.

⁴ 1-(3,3-dimethyl-1-cyclohexyl)ethyl formate; origin: International Flavors & Fragrances.

⁵ Methyl dihydrojasmonate.

⁶ Linalool.

⁷ Fragrance materials added as dilutions in a non-volatile solvent. For the purposes of calculating the fragrance oil composition actual fragrance materials levels added are used.

[0258] Fragrance example 18 (as disclosed in Table 17) is composed of 26.71 wt % of high volatile fragrance materials, 63.88 wt % of moderate volatile fragrance materials and 9.37 wt % of low volatile fragrance materials, wherein the wt % is relative to the total weight of the fragrance component.

TABLE 17

Fragrance Example 18 (Comparative Fragrance 2 - 9.37 wt % of Low Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Amount	
			Parts by Weight	Parts (wt %)
D-Limonene	5989-27-5	1.540	50.00	5.21
cis-3-Hexenol (10% in DPG) ⁴	928-96-1	1.040	0.5	0.05
Acetophenone (10% in DPG) ⁴	98-86-2	0.299	1.00	0.10
Methylphenyl Acetate	101-41-7	0.176	10.00	1.04
Dihydromyrcenol	18479-58-8	0.166	50.00	5.21
Benzyl acetate	140-11-4	0.164	60.00	6.25
Tetra-Hydro Linalool	n/a	0.115	50.00	5.21
n-Undecanal	n/a	0.102	5.00	0.52
Linalool	78-70-6	0.0905	40.00	4.17
Phenylethyl Alcohol	60-12-8	0.0741	245.00	25.53
Allyl amyl glycolate (10% in DPG) ⁴	67634-00-8	0.04000	2.00	0.21
Indole (10% in DPG) ⁴	120-72-9	0.02980	1.00	0.10
Alpha-Terpineol	98-55-5	0.02830	30.00	3.13
Diphenyl Oxide	101-84-8	0.02230	5.00	0.52
L-Citronellol	7540-51-4	0.01830	80.00	8.34
Beta-Ionone	14901-07-6	0.01690	5.00	0.52
Alpha-Ionone	127-41-3	0.01440	15.00	1.56
Dimethyl benzyl carbinyl acetate	151-05-3	0.01390	30.00	3.13
Geraniol	106-24-1	0.01330	40.00	4.17
Nerol	n/a	0.01330	20.00	2.08
Lilial ® ¹	80-54-6	0.00444	60.00	6.25
Gamma-Undecalactone	104-67-6	0.00271	15.00	1.56
Amyl salicylate	2050-08-0	0.00144	25.00	2.61
Galaxolide ®	1222-05-5	0.000414	20.00	2.08
cis-3-Hexenyl salicylate	65405-77-8	0.000246	20.00	2.08
Ethylene Brassylate	105-95-3	0.00000000313	30.00	3.13
Styrollyl Acetate ⁵	n/a	n/a	20.00	2.08

TABLE 17-continued

Fragrance Example 18 (Comparative Fragrance 2 - 9.37 wt % of Low Volatile Fragrance Materials)				
Ingredients	CAS Number	Vapor Pressure (Torr at 25° C.)	Amount	
			Parts by Weight	Parts (wt %)
Decenol trans-9 ³	n/a	n/a	15.00	1.56
Geranium oil ²	n/a	n/a	15.00	1.56
Total			959.5	100 wt %

¹ Benzenepronal, 4-(1,1-dimethylethyl)- α -methyl-
² Natural oil that is judged to be volatile for the purposes of calculating levels of the volatile fragrance materials.
³ Proprietary oil that is judged to be volatile for the purposes of calculating levels of the volatile fragrance materials.
⁴ Fragrance materials added as dilutions in a non-volatile solvent. For the purposes of calculating the fragrance oil composition actual fragrance materials levels added are used.
⁵ Unknown oil that is judged to be of low volatility for the purposes of calculating levels of the volatile fragrance materials.

Example 2

Compositions Comprising Fragrance Oils and Substantially Non-Odoriferous Fragrance Modulators

[0259] Compositions A1, D1, G1, J1 and M1 are examples of fragrance compositions according to the present invention, made with any one of fragrance examples 1-3, 4b, 5b and 18, respectively. Compositions B, E, H, K and N are

examples of fragrance compositions containing any one of the following fragrance examples 4a, 5a, and 7-17, and which are outside the scope of the present invention. In parallel, control compositions C1, F1, I1, L1 and O1 are prepared by replacing the different substantially non-odoriferous fragrance modulators by the same amount of deionized water. All of the compositions are prepared by admixture of the components described in Table 18(a), in the proportions indicated.

TABLE 18(a)

Ingredients	Fragrance Compositions														
	Fragrance Composition (wt %) ¹														
	A1	B1	C1	D1	E1	F1	G1	H1	I1	J1	K1	L1	M1	N1	O1
Fragrance A1 ²	5-10	—	—	0.01-2	—	—	3-10	—	—	5-10	—	—	0.1-5	—	—
Fragrance B ³	—	5-10	—	—	0.01-2	—	—	3-10	—	—	5-10	—	—	0.1-5	—
Fragrance A1 or B	—	—	5-10	—	—	0.01-2	—	—	3-10	—	—	5-10	—	—	0.1-5
Ethanol							60-99.99								
Butylated Hydroxy Toluene							0-0.07								
Modulator A ⁴	2-20	2-20	—	—	—	—	—	—	—	—	—	—	—	—	—
Modulator B ⁵	—	—	—	0.1	0.1	—	—	—	—	—	—	—	—	—	—
Modulator C ⁶	—	—	—	—	—	—	0.1-5	0.1-5	—	—	—	—	—	—	—
Modulator D ⁷	—	—	—	—	—	—	—	—	—	2-10	2-10	—	—	—	—
Modulator E ⁸	—	—	—	—	—	—	—	—	—	—	—	—	0.1-3	0.1-3	—
Deionized water							to 100.00								

¹Wt % is relative to the total weight of the composition.
²Can be any one of fragrance examples 1-3, 4b, 5b, and 18.
³Can be any one of fragrance examples 4a, 5a, and 7-17.
⁴Can be any one of the substantially non-odoriferous fragrance modulators examples: sucrose laurate; sucrose dilaurate, sucrose myristate, sucrose palmitate, sucrose stearate; sucrose distearate; or sucrose tristearate.
⁵Substantially non-odoriferous fragrance modulator is (E)-1-(2,2,6-trimethylcyclohexyl)oct-1-en-3-one.
⁶Can be any one of the substantially non-odoriferous fragrance modulators examples: 2-(1-menthoxy) ethane-1-ol; 1-(1-menthoxy) propane-2-ol; 3-(1-menthoxy) propane-1-ol; 3-(1-menthoxy) propane-1,2-diol; 2-methyl-3-(1-menthoxy)propane-1,2-diol; or 4-(1-menthoxy) butane-1-ol.
⁷Substantially non-odoriferous fragrance modulator is Hydroquinone beta-D-glycoside.
⁸Substantially non-odoriferous fragrance modulator is Hyaluronic acid disaccharide sodium salt or Sodium Hyaluronate (20-50 kDa).

[0260] Compositions A2, D2, G2, J2 and M2 are examples of fine fragrance compositions according to the present invention, made with any of the fragrance examples 1 to 3, 4b, 5b, and 18 respectively. Compositions B2, E2, H2, K2 and N2 are examples of fragrance compositions containing traditional or higher levels of low volatile fragrance materials, made with any of the fragrance examples 4a, 5a, and 7-17, respectively. In parallel, control compositions C2, F2, I2, L2 and O2 are prepared by replacing the different substantially non-odorous fragrance modulators by the same amount of deionized water. All of the compositions are prepared by admixture of the components described in Table 18(b), in the proportions indicated.

TABLE 18(c)

Fragrance Composition			
Ingredients	Fragrance Composition (wt %) ¹		
	A3	B3	C3
Fragrance A1 ²	2-15	—	—
Fragrance B ³	—	2-15	—
Fragrance A1 or B	—	—	2-15
Ethanol	60-99.99		
Butylated Hydroxy Toluene	0-0.07		

TABLE 18(b)

Fragrance Compositions															
Ingredients	Fragrance Composition (wt %) ¹														
	A2	B2	C2	D2	E2	F2	G2	H2	I2	J2	K2	L2	M2	N2	O2
Fragrance A1 ²	5-10	—	—	5-15	—	—	2.5-10	—	—	5-20	—	—	0.1-20	—	—
Fragrance B ³	—	5-10	—	—	5-15	—	—	2.5-10	—	—	5-20	—	—	0.1-20	—
Fragrance A1 or B	—	—	5-10	—	—	5-15	—	—	2.5-10	—	—	5-20	—	—	0.1-20
Ethanol	60-99.9														
Butylated Hydroxy Toluene	0-0.07														
Modulator A ⁴	5-20	5-20	0	—	—	—	—	—	—	—	—	—	—	—	—
Modulator B ⁵	—	—	—	0.5-5	0.5-5	0	—	—	—	—	—	—	—	—	—
Modulator C ⁶	—	—	—	—	—	—	0.1-3.0	0.1-3.0	0	—	—	—	—	—	—
Modulator D ⁷	—	—	—	—	—	—	—	—	—	2.5-15	2.5-15	0	—	—	—
Modulator E ⁸	—	—	—	—	—	—	—	—	—	—	—	—	0.1-20	0.1-20	0
Deionized water	to 100.00														

¹Wt % is relative to the total weight of the composition.

²Can be any one of fragrance examples 1-3, 4b, 5b, and 18.

³Can be any one of fragrance examples 4a, 5a, and 7-17.

⁴Can be any one of the substantially non-odorous fragrance modulators examples: Propylene Glycol Propyl Ether, Hexaethylene glycol monododecyl ether, Panthenol Ethyl Ether, DL-Panthenol, Diisobutyl Adipate, or Diisoamyl Adipate.

⁵Neopentyl Glycol Diisononanoate.

⁶2-ethylhexyloxypropanediol.

⁷PPG-11 Stearyl Ether.

⁸Can be any one of the substantially non-odorous fragrance modulators examples: Dicyetyl Ether; Polyglycerin-4 Ethers; Isoceteth-5; Isoceteth-7; Isoceteth-10; Isoceteth-12; Isoceteth-15; Isoceteth-20; Isoceteth-25; Isoceteth-30; Disodium Lauroamphodipropionate; Hexaethylene glycol monododecyl ether; or Cetearyl Ethylhexanoate.

[0261] Composition A3 is an example of a fragrance composition according to the present invention, made with any of the fragrance examples 1-3, 4b, 5b and 18, respectively. Composition B3 is an example of a fragrance composition containing traditional or higher levels of low volatile fragrance materials, made with any of the fragrance examples 4a, 5a, and 7-17, respectively. In parallel, a control composition C3 is prepared by replacing the different substantially non-odorous fragrance fixative by the same amount of deionized water. All of the compositions are prepared by admixture of the components described in Table 18(c) in the proportions indicated.

TABLE 18(c)-continued

Fragrance Composition			
Ingredients	Fragrance Composition (wt %) ¹		
	A3	B3	C3
Modulator A ⁴	0.1-20	0.1-20	—
Deionized water	to 100.00		

¹ Wt % is relative to the total weight of the composition.

² Can be any one of fragrance examples 1-3, 4b, 5b, and 18.

³ Can be any one of fragrance examples 4a, 5a, and 7-17.

⁴ Can be any one of the substantially non-odorous fragrance modulator as disclosed in Table 4(b).

[0262] Compositions A4, D4, G4, and J4 are examples of fragrance compositions according to the present invention, made with any one of fragrance examples 1-3, 4b, 5b, and 18, respectively. Compositions B4, E4, H4, and K4 are examples of fragrance compositions containing any one of the following fragrance examples 4a, 5a, and 7-17, and which are outside the scope of the present invention. In parallel, control compositions C4, F4, 14, and L4 are prepared by replacing the different substantially non-odorous fragrance modulators by the same amount of deionized water or ethanol. All of the compositions are prepared by admixture of the components described in Table 18(d), in the proportions indicated.

TABLE 18(d)

Fragrance Compositions													
Ingredients	Fragrance Composition (wt %) ¹												
	A4	B4	C4	D4	E4	F4	G4	H4	I4	J4	K4	L4	
Fragrance A1 ²	7	—	—	7	—	—	7	—	—	7	—	—	
Fragrance B ³	—	7	—	—	7	—	—	7	—	—	7	—	
Fragrance A1 or B	—	—	7	—	—	7	—	—	7	—	—	7	
Ethanol	—	—	—	—	—	—	75	—	—	—	—	—	
Butylated Hydroxy Toluene	—	—	—	—	—	—	0-0.07	—	—	—	—	—	
PPG-20 Methyl Glucose Ether ⁴	15	15	0	—	—	—	—	—	—	—	—	—	
Caprylyl/Capryl Glucoside ⁵	—	—	—	15	15	0	—	—	—	—	—	—	
Undecyl Glucoside ⁶	—	—	—	—	—	—	15	15	0	—	—	—	
Isocetyl Alcohol ⁷	—	—	—	—	—	—	—	—	—	15	15	0	
Deionized water	—	—	—	—	—	—	—	—	—	—	—	to 100.00	

¹Wt % is relative to the total weight of the composition.
²Can be any one of fragrance examples 1-3, 4b, 5b, and 18.
³Can be any one of fragrance examples 4a, 5a, and 7-17.
⁴Available as GLUCAM™ P-20.
⁵Available as Plantacare® 810 UP.
⁶Available as Simulsol® SL 11W.
⁷Available as Ceraphyl® ICA.

[0263] Compositions A5 is an example of a fragrance composition according to the present invention, made with any one of fragrance examples 1-3, 4b, 5b, and 18, respectively. Compositions C5 is an example of a fragrance composition containing traditional or higher levels of low volatile fragrance materials, made with any one of the following fragrance examples 4a, 5a, and 7-17, respectively. In parallel, control compositions C5 is prepared by replacing the different substantially non-odorous fragrance modulator by the same amount of deionized water. All of the compositions are prepared by admixture of the components described in Table 18(e), in the proportions indicated.

TABLE 18(e)

Fragrance Composition			
Ingredients	Fragrance Composition (wt %) ¹		
	A5	B5	C5
Fragrance A1 ²	2-15	—	—
Fragrance B ³	—	2-15	—

TABLE 18(e)-continued

Fragrance Composition			
Ingredients	Fragrance Composition (wt %) ¹		
	A5	B5	C5
Fragrance A1 or B	—	—	2-15
Ethanol	—	60-99.99	—
Butylated Hydroxy Toluene	—	0-0.07	—
Modulator A ⁴	0.1-20	0.1-20	—
Deionized water	—	to 100.00	—

¹Wt % is relative to the total weight of the composition.
²Can be any one of fragrance examples 1-3, 4b, 5b, and 18.
³Can be any one of fragrance examples 4a, 5a, and 7-17.
⁴Can be any one of the substantially non-odorous fragrance modulators nos. 1, 3, 7, 8, 99, 100, and 101-103 as disclosed in Table 4(a).

[0264] Tables 19(a) provides test compositions (MOD1 to MOD3) comprising the volatile fragrance formulation of fragrance example 6 (as disclosed in Table 11) with a substantially non-odorous fragrance modulator (as disclosed in Tables 4(a) and 4(b)) that are particularly suited to analytical measurements. All of the compositions are prepared by admixture of the components described in Table 19(a) in the proportions indicated.

TABLE 19(a)

Fragrance Example (Compositions Comprising 10 Volatile Fragrance Materials)		
Ingredients	Test composition (wt %) ¹	Reference composition (wt %) ¹
	MOD 1 to 3	REF
Fragrance A ²	7.0	7.0
Triethyl citrate	0.25 to 1.0	0.25 to 1.0
Ethanol	75.0	75.0
Modulator ³	15.0	0.0
Water	qsp	qsp
Total	100.0	100.0

¹Wt % is relative to the total weight of the composition.
²Fragrance Example 6 (as disclosed in Table 11).
³Can be any one of the substantially non-odorous fragrance modulator nos. 7, 8 and 100 as disclosed in Table 4(a).

[0265] Tables 19(b) provides test compositions comprising the volatile fragrance formulation of fragrance example 6 (as disclosed in Table 11) with a substantially non-odorous fragrance modulator (as disclosed in Tables 4(a) and 4(b)) that are particularly suited to analytical measurements. All of the compositions are prepared by admixture of the components described in Table 19(b) in the proportions indicated.

TABLE 19(b)

Compositions comprising fragrance with 10 Volatile Fragrance Materials		
Ingredients	Test composition (wt %) ¹	Reference composition (wt %) ¹
Fragrance A ²	7.0	7.0
Triethyl citrate	0.25 to 1.0	0.25 to 1.0
Ethanol	75.0	75.0

TABLE 19(b)-continued

Compositions comprising fragrance with 10 Volatile Fragrance Materials		
Ingredients	Test composition (wt % ¹)	Reference composition (wt % ¹)
Modulator ³	1-15.0	0.0
Water	qsp	qsp
Total	100.0	100.0

¹ Wt % is relative to the total weight of the composition.

² Fragrance Example 6 (as disclosed in Table 11).

³ Can be any one of the substantially non-odorous fragrance modulator nos. 1-6, 9-99, and 101-103 as disclosed in Table 4(a) and substantially non-odorous fragrance modulator nos. 1-189 as disclosed in Table 4(b).

Example 3

Single Fragrance Material Compositions Containing Substantially Non-Odorously Fragrance Modulators

[0266] Compositions A6, C6, E6, and G6-L6 are examples of compositions according to the present invention, made with single fragrance materials and the substantially non-odorous fragrance modulators, respectively. In parallel, control Compositions B6, D6, F6 and M6 are prepared without a substantially non-odorous fragrance modulator as a control. All the compositions are prepared by admixture of the components in Table 20, in the proportions indicated.

TABLE 20

Ingredients	Single Fragrance Material Compositions												
	Single PRM Composition (wt %) ¹												
	A6	B6	C6	D6	E6	F6	G6	H6	I6	J6	K6	L6	M6
Dimethyl Benzyl Carbinol	1	1	—	—	—	—	—	—	—	—	—	—	—
Ethyl Safranate	—	—	1	1	—	—	—	—	—	—	—	—	—
Phenylethyl alcohol	—	—	—	—	1	1	—	—	—	—	—	—	—
Eugenol	—	—	—	—	—	—	—	—	—	—	—	1	1
Fragrance C ⁶	—	—	—	—	—	—	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	—	—
Sucrose	3.8	0	3.0	0	4.6	0	—	—	—	—	—	—	—
Myristate	—	—	—	—	—	—	—	—	—	—	—	—	—
Modulator A2 ²	—	—	—	—	—	—	1-5	—	—	—	—	—	—
Modulator B ³	—	—	—	—	—	—	—	0.1	—	—	—	—	—
Modulator C ⁴	—	—	—	—	—	—	—	—	0.1-5	—	—	—	—
Modulator D ⁵	—	—	—	—	—	—	—	—	—	1-4	—	1.6	0
Modulator E ⁷	—	—	—	—	—	—	—	—	—	—	0.1-3	—	—
Ethanol	to 100												

¹Wt % is relative to the total weight of the composition.

²Can be any one of the substantially non-odorous modulators examples: sucrose laurate, sucrose dilaurate, sucrose palmitate, sucrose stearate, sucrose distearate, or sucrose tristearate.

³Can be any one of the substantially non-odorous modulators examples: (E)-1-(2,2,6-trimethylcyclohexyl)oct-1-en-2-one.

⁴Can be any one of the substantially non-odorous modulators examples: 2-(1-menthoxy) ethane-1-ol; 1-(1-menthoxy) propane-2-ol; 3-(1-menthoxy) propane-1-ol; 3-(1-menthoxy) propane-1,2-diol; 2-methyl-3-(1-menthoxy)propane-1,2-diol; or 4-(1-menthoxy) butane-1-ol.

⁵Substantially non-odorous fragrance modulator is Hydroquinone beta-D-glycoside (available as Arbutin from Sigma-Aldrich).

⁶Can be any one of the single fragrance materials: Dimethyl Benzyl Carbinol; Ethyl Safranate, Phenyl ethyl alcohol or Eugenol.

⁷Substantially non-odorous fragrance modulator is Hyaluronic acid disaccharide sodium salt or Sodium Hyaluronate (20-50 kDa).

[0267] Compositions A7, C7 and E7-17 are examples of compositions according to the present invention, made with single fragrance materials and the substantially non-odorous fragrance modulators, respectively. In parallel, control Compositions B7, D7 and J7 are prepared without a substantially non-odorous fragrance modulator as a control. All the compositions are prepared by admixture of the components in Table 21, in the proportions indicated.

TABLE 21

Ingred-	Single Fragrance Material Compositions									
	Single PRM Composition (wt %) ¹									
dients	A7	B7	C7	D7	E7	F7	G7	H7	I7	J7
Dimethyl Benzyl Carbinyl Acetate	—	—	1.0	1.0	—	—	—	—	—	—
Eugenol	1.0	1.0	—	—	—	—	—	—	—	—
Fragrance C ⁶	—	—	—	—	0.1-1	0.1-1	0.1-1	0.1-1	0.1-1	0.1-1
Propylene Glycol Propyl Ether	0.8	0.0	—	—	—	—	—	—	—	—
Diisobutyl adipate	—	—	1.4	0.0	—	—	—	—	—	—
Modulator A2 ²	—	—	—	—	0.1-5	—	—	—	—	0
Modulator B ³	—	—	—	—	—	0.1-5	—	—	—	0
Modulator C ⁴	—	—	—	—	—	—	0.1-5	—	—	0
Modulator D ⁵	—	—	—	—	—	—	—	0.1-5	—	0

TABLE 22(c)-continued

Single Fragrance Material Compositions										
Single Fragrance Material Composition (wt %) ¹										
Ingredients	A9	B9	C9	D9	E9	F9	G9	H9	I9	J9
Kolliphor® EL ⁴	—	—	16.6	0.0	15.2	0.0	13.0	0.0	—	—
Glycerol	—	—	—	—	—	—	—	—	0.1-20	0.0
Alkxoylates ⁵	—	—	—	—	—	—	—	—	—	—
Ethanol	—	—	—	—	—	—	—	—	—	to 100

¹Wt % is relative to the total weight of the composition.

²Can be any one of the single fragrance materials examples: Indocolore, Dimethyl Benzyl Carbinol, Eugenol or Phenethyl alcohol.

³Chemical name is Bis-methoxy PEG-13 PEG-438/PPG-110 SMDI Copolymer and listed as a substantially non-odorous modulator no. 99 as disclosed in Table 4(a).

⁴Chemical name is propyl {4-[2-(diethylamino)-2-oxoethoxy]-3-methoxyphenyl}acetate and listed as a substantially non-odorous modulator no. 100 as disclosed in Table 4(a).

⁵Can be any one of the substantially non-odorous modulators examples: 3-((2-ethylhexyl)oxy)propane-1,2-diol (modulator no. 101 as disclosed in Table 4(a)); 3-((2-propylheptyl)oxy)propane-1,2-diol (modulator no. 102 as disclosed in Table 4(a)); or 1-amino-3-((2-ethylhexyl)oxy)propan-2-ol (modulator no. 103 as disclosed in Table 4(a)).

[0270] Composition A10 is an example of a composition according to the present invention, made with single fragrance material and the substantially non-odorous fragrance modulator, respectively. In parallel, control Composition B10 is prepared without a substantially non-odorous fragrance modulator. All the compositions are prepared by admixture of the components in Table 22(d), in the proportions indicated.

TABLE 22(d)

Single Fragrance Material Compositions		
Single Fragrance Material Composition (wt %) ¹		
Ingredients	A10	B10
Fragrance A ²	1-7	1-7
Modulator ³	1-15.0	0.0
Ethanol	—	to 100

¹Wt % is relative to the total weight of the composition.

²Can be any one of the fragrance materials disclosed in Tables 2 and 3.

³Can be any one of the substantially non-odorous fragrance modulator not already disclosed in Tables 20, 21, and 22(a)-22(c) above.

Example 4

Exemplary Product Compositions

[0271] Compositions I, II, III and IV are examples of body spray compositions according to the present invention. They are prepared by admixture of the components described in Table 23, in the proportions indicated.

TABLE 23

Body Spray Compositions					
Composition (wt %) ¹					
Ingredients	CAS Number	I	II	III	IV
Denatured Ethanol	64-17-5	39.70	59.45	39.70	39.70
Water	7732-18-5	—	0.75	—	—
Dipropylene Glycol	25265-71-8	15.00	—	15.00	15.00
Isopropyl Myristate	110-27-0	1.00	—	1.00	1.00
Zinc Phenosulphonate	127-82-2	0.50	—	0.50	0.50
Cavasol® W7 methylated Beta-cyclodextrin	128446-36-6	—	1.00	—	—
Fragrance ²	—	1.20	1.20	1.20	1.20
Fragrance Modulator ³	—	2.60	2.60	2.60	2.60
Propane	74-98-6	4.86	—	4.86	4.86
Isobutane	72-28-5	27.14	—	27.14	27.14
1,1-Difluoroethane (HFC-152a)	75-37-6	8.00	35.00	8.00	8.00
Total		100.00	100.00	100.00	100.00

¹Wt % relative to the total weight of the composition.

²Can be any one of Fragrances Examples 1, 2, 3, 4b, 5b or 18.

³Can be any one of the substantially non-odorous fragrance modulators disclosed in Tables 4(a) and 4(b).

[0272] Composition V, VI and VII are examples of body lotion compositions according to the present invention. They are prepared by admixture of the components as described in Table 24, in the proportions indicated.

TABLE 24

Body Lotion Composition					
Ingredients	CAS Number	Composition (wt % ¹)			
		V		VII	
Water	7732-18-5	qsp	100%	qsp	100%
Trilon ® B	64-02-8	0.05	0.05	0.05	0.05
Carbopol ® ETD 2050	9003-01-4	0.2	0.2	0.2	0.2
Pemulen™ TR1	9063-87-0	0.2	0.2	0.2	0.2
Nexbase ® 2008	68037-01-4	8	8	8	8
Silicone V100	63148-62-9	6	6	6	6
Fragrance Modulator ³	—	3	3	3	3
Tris Amino™ Ultra Pur	102-71-6	0.4	0.4	0.4	0.4
Fragrance ²	—	3	3	3	3
Preservatives	—	qs	qs	qs	qs
Total		100.00	100.00	100.00	100.00

¹ Wt % relative to the total weight of the composition.

² Can be any one of the Fragrances Examples 1, 2, 3, 4b, 5b or 18.

³ Can be any one of the substantially non-odorous fragrance modulators disclosed in Tables 4(a) and 4(b).

Example 5

Olfactive Test Results

[0273] Compositions disclosed in Tables 18(a)-18(d), 20, 21, and 22(a)-22(d) are applied to glass slides in accordance with the protocol described in the Method Section and a panel of 6-10 experienced panelists evaluate the perceived fragrance profile at initial time 0, then at various time points, typically 1 hour, 2 hours, 3 hours, 4 hours and 6 hours post application. Panelists are asked to score the compositions for the longevity and/or fidelity of the fragrance profile on a scale of 0 to 5, wherein 0 represents a no fragrance is detected and 5 represents a very strong fragrance intensity is detected. The results of the panelists are then averaged and discussed below.

[0274] (a) Effects of the Substantially Non-Odorously Fragrance Modulators on Single Fragrance Material Compositions

[0275] FIG. 2 shows the fragrance intensity profile of Composition A9 (as disclosed in Table 22(c)) as evaluated by 10 panelists, which comprises the substantially non-odorous fragrance modulator Bis-methoxy PEG-13 PEG-438/PPG-110 SMDI Copolymer (i.e., Expert Gel® 56) and the single fragrance material Indocolore. Addition of the substantially non-odorous fragrance modulator (Expert Gel® 56) maintains the intensity of the fragrance material for up to at least 6 hours whilst the control, Composition B9, in the absence of the substantially non-odorous fragrance modulator, drops in fragrance intensity profile much more over this time. The substantially non-odorous fragrance modulator acts to maintain the continued initial evaporation over time of the fragrance material. Statistical analysis using the Tukey correction for multiple comparisons confirms the statistically significant difference at 1, 3 and 6 hours (p<0.0001) at 95% significance level (i.e., p<0.05) at all these time points.

[0276] FIG. 3 shows the fragrance intensity profile of Composition C9 (as disclosed in Table 22(c)) as evaluated by 9 panelists, which comprises the substantially non-odorous fragrance modulator propyl {4-[2-(diethylamino)-

2-oxoethoxy]-3-methoxyphenyl}acetate (i.e., Kolliphor® EL) and the single fragrance material Dimethyl Benzyl Carbinol. Addition of the substantially non-odorous fragrance modulator (Kolliphor® EL) maintains the intensity of the fragrance material for up to at least 6 hours whilst the control, Composition D9, in the absence of the substantially non-odorous fragrance modulator, drops in fragrance intensity profile much more over this time. The substantially non-odorous fragrance modulator acts to maintain the reduced rate of evaporation over time of the fragrance material. Statistical analysis using the Tukey correction for multiple comparisons confirms the statistically significant difference at 1 hour (p<0.0001), 3 hours (p=0.0265) and 6 hours (p=0.0388) at 95% significance level (i.e., p<0.05) at all these time points.

[0277] FIG. 4 shows the fragrance intensity profile of Composition E9 (as disclosed in Table 22(c)) as evaluated by 9 panelists, which comprises the substantially non-odorous fragrance modulator propyl {4-[2-(diethylamino)-2-oxoethoxy]-3-methoxyphenyl}acetate (i.e., Kolliphor® EL) and the single fragrance material Eugenol. Addition of the substantially non-odorous fragrance modulator (Kolliphor® EL) maintains the intensity of the fragrance material for up to at least 6 hours whilst the control, Composition F9, in the absence of the substantially non-odorous fragrance modulator, drops in fragrance intensity profile much more over this time. The substantially non-odorous fragrance modulator acts to suppress the initial display of Eugenol and then maintains that continued initial evaporation over time. Statistical analysis using the Tukey correction for multiple comparisons confirms the statistically significant difference at 0 hours (p=0.0025), 1 hour (p<0.0001), 3 hours (p<0.0001) and 6 hours (p<0.0001) at 95% significance level (i.e., p<0.05) at all time points.

[0278] FIG. 5 shows the fragrance intensity profile of Composition G9 (as disclosed in Table 22(c)) as evaluated by 9 panelists, which comprises the substantially non-odorous fragrance modulator propyl {4-[2-(diethylamino)-2-oxoethoxy]-3-methoxyphenyl}acetate (i.e., Kolliphor® EL) and the single fragrance material Phenethyl alcohol (PEA). Addition of the substantially non-odorous fragrance modulator (Kolliphor® EL) maintains the intensity of the fragrance material from 1 hour to 3 hours whilst the control, Composition H9, in the absence of the substantially non-odorous fragrance modulator, drops in fragrance intensity profile over this time. The substantially non-odorous fragrance modulator acts to maintain the reduced rate of evaporation over time of the fragrance material. Statistical analysis using the Tukey correction for multiple comparisons confirms the statistically significant difference at 1 hour (p<0.0001) at 95% significance level (i.e., p<0.05) and at 3 hours (p=0.0876) at 90% significance level (i.e., p<0.1).

[0279] (b) Effects of the Substantially Non-Odorously Fragrance Modulators on the Fragrance Profile Longevity of Compositions Having Diamond Construction of Fragrance Component Vs. Compositions Having Traditional Levels of Fragrance Component (Greater than 30 wt % Relative to the Total Weight of the Fragrance Component) and No Substantially Non-Odorously Fragrance Modulator

[0280] Panelists are asked to score the compositions for the intensity of the fragrance on a scale of 0 to 5, wherein 0 represents a no fragrance intensity is detected and 5 represents a very strong fragrance intensity is detected. The results of the panel test are then averaged. The results show

the effect of the substantially non-odorous fragrance modulator and diamond constructed fragrance materials for any one of the inventive Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2 on fragrance profile longevity versus control Compositions C2, C3, C4, C5, F1, F2, F4, I1, I2, I4, L1, L2, L4, O1, and O2 in the absence of the substantially non-odorous modulator. Alternatively, the results show the effect of the substantially non-odorous fragrance modulator and diamond constructed fragrance materials for any one of the inventive Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2 on fragrance profile longevity versus traditional Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 in the presence of the substantially non-odorous fragrance modulator. Fragrance profile longevity, particularly intensity of the characters attributable to the volatile fragrance materials are maintained for up to at least 6 hours in the presence of the substantially non-odorous fragrance modulator whilst it drops in the absence of the substantially non-odorous fragrance modulator.

[0281] FIG. 6 provides the fragrance intensity profile of Composition A4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) and the Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator Glucam™ P-20 maintains the intensity of the fragrance material for up to 6 hours. As compared to the control Composition C4, in the absence of the substantially non-odorous fragrance modulator Glucam™ P-20, and comprising the Traditional Floral Magnifica Fragrance Example 4a drops in fragrance intensity over the 6 hours.

[0282] FIG. 7 provides the fragrance intensity profile of Composition A4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) and the Diamond Muguesia Magnifica Fragrance Example 5b. Addition of the substantially non-odorous fragrance modulator Glucam™ P-20 maintains the intensity of the fragrance material for up to 6 hours. As compared to the control Composition C4, in the absence of the substantially non-odorous fragrance modulator Glucam™ P-20, and comprising the Traditional Muguesia Magnifica Fragrance Example 5a drops in fragrance intensity over the 6 hours.

[0283] FIG. 8 provides the fragrance intensity profile of Composition A2 (as disclosed in Table 18(b)), which comprises 15 wt % substantially non-odorous fragrance modulator Diisobutyl Adipate and 7 wt % Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator Diisobutyl Adipate maintains the intensity of the fragrance material for up to 6 hours. As compared to the control Composition C2, in the absence of the substantially non-odorous fragrance modulator Diisobutyl Adipate, and comprising 7 wt % Traditional Floral Magnifica Fragrance Example 4a drops in fragrance intensity over the 6 hours.

[0284] FIG. 9 provides the fragrance intensity profile of Composition A2 (as disclosed in Table 18(b)), which comprises 15 wt % substantially non-odorous fragrance modulator Diisobutyl Adipate and 7 wt % Diamond Muguesia Magnifica Fragrance Example 5b. Addition of the substantially non-odorous fragrance modulator Diisobutyl Adipate maintains the intensity of the fragrance material for up to 6

hours. As compared to the control Composition C2, in the absence of the substantially non-odorous fragrance modulator Diisobutyl Adipate, and comprising 7 wt % Traditional Muguesia Magnifica Fragrance Example 5a drops in fragrance intensity over the 6 hours.

[0285] Panelists are also asked to score the Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 for the intensity of the fragrance profile. The results show the effect of the substantially non-odorous fragrance modulator and excessive levels of low volatile fragrance materials for any one of Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 on fragrance profile longevity and fidelity. Two outcomes are observed: (i) either the fragrance profile longevity is unaffected by the addition of the substantially non-odorous fragrance modulator or (ii) the fragrance profile appears to be suppressed with a loss of strength (data not shown).

[0286] Without wishing to be bound by theory, it is believed that the substantially non-odorous fragrance modulator acts to maintain the continued evaporation over time of the fragrance materials, particular the volatile fragrance materials. The effects of the improved fragrance profile longevity of the present invention are noticeable at, any one of, 1, 3 and 6 hours post application.

[0287] (c) Effects of the Substantially Non-Odorously Fragrance Modulators on the Fragrance Profile Fidelity of Compositions Having Diamond Fragrance Materials (Between 10 Wt % to 30 wt % Relative to the Total Weight of the Fragrance Component) Vs. Compositions Having Traditional Levels of Low Volatile Fragrance Materials (Greater than 30 wt % Relative to the Total Weight of the Fragrance Component) and No Substantially Non-Odorously Fragrance Modulator

[0288] Panelists are also asked to score the composition for the fragrance profile fidelity. In particular, the panelists are asked to score the dominance of the floral character attributable to the volatile fragrance materials on a scale of 0 to 3 wherein 0 represents not detectable and 3 represents it being the dominant character. The results of the panel test are then averaged. The results show the effect of the substantially non-odorous fragrance modulator and diamond fragrance materials for the inventive Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2 on the floral character dominance versus control Compositions C1, C2, C3, C4, C5, F1, F2, F4, I1, I2, I4, L1, L2, L4, O1, and O2 in the absence of the substantially non-odorous fragrance modulator. Alternatively, the results show the effect of the substantially non-odorous fragrance modulator and diamond fragrance materials for any one of the inventive Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2 on fragrance profile fidelity versus traditional Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 in the presence of the substantially non-odorous fragrance modulator. Fragrance profile fidelity, particularly floral character attributable to the volatile fragrance materials, are maintained by the substantially non-odorous fragrance modulator over time for up to 6 hours in the presence of the substantially non-odorous fragrance modulator whilst it drops in the absence of the substantially non-odorous fragrance modulator.

[0289] FIG. 10 provides the fragrance fidelity profile of Composition A4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator

PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) and the Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator Glucam™ P-20 maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition C4 comprising the Traditional Floral Magnifica Fragrance Example 4a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Glucam™ P-20 to Composition B4 comprising Traditional Floral Magnifica Fragrance Example 4a does not result in improved fidelity of the floral character (data not shown).

[0290] FIG. 11 provides the fragrance fidelity profile of Composition A4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator PPG-20 Methyl Glucose Ether (i.e., Glucam™ P-20) and the Diamond Muguesia Magnifica Fragrance Example 5b. Addition of the substantially non-odorous fragrance modulator Glucam™ P-20 maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition C4 comprising the Traditional Muguesia Magnifica Fragrance Example 5a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Glucam™ P-20 to Composition B4 comprising Traditional Muguesia Magnifica Fragrance Example 5a does not result in improved fidelity of the floral character (data not shown).

[0291] FIG. 12 provides the fragrance fidelity profile of Composition D4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator Caprylyl/Capryl Glucoside (i.e., Plantacare® 810 UP) and the Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator Plantacare® 810 UP maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition F4 comprising the Traditional Floral Magnifica Fragrance Example 4a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Plantacare® 810 UP to Composition E4 comprising Traditional Floral Magnifica Fragrance Example 4a does not result in improved fidelity of the floral character (data not shown).

[0292] FIG. 13 provides the fragrance fidelity profile of Composition G4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator Undecyl Glucoside (i.e., Simulsol® SL 11W) and the Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator Simulsol® SL 11W maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition 14 comprising the Traditional Floral Magnifica Fragrance Example 4a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Simulsol® SL 11W to Composition H4 comprising Traditional Floral Magnifica Fragrance Example 4a does not result in improved fidelity of the floral character (data not shown).

[0293] FIG. 14 provides the fragrance fidelity profile of Composition J4 (as disclosed in Table 18(d)), which comprises the substantially non-odorous fragrance modulator Isocetyl Alcohol (i.e., Ceraphyl® ICA) and the Diamond Floral Magnifica Fragrance Example 4b. Addition of the

substantially non-odorous fragrance modulator Ceraphyl® ICA maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition L4 comprising the Traditional Floral Magnifica Fragrance Example 4a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Ceraphyl® ICA to Composition K4 comprising the Traditional Floral Magnifica Fragrance Example 4a does not result in improved fidelity of the floral character (data not shown).

[0294] FIG. 15 provides the fragrance fidelity profile of Composition A2 (as disclosed in Table 18(b)), which comprises 15 wt % substantially non-odorous fragrance modulator Diisobutyl Adipate and 7 wt % Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator Diisobutyl Adipate maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition C2 comprising 7 wt % Traditional Floral Magnifica Fragrance Example 4a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Diisobutyl Adipate to Composition B2 comprising 7 wt % Traditional Floral Magnifica Fragrance Example 4a does not result in improved fidelity of the floral character (data not shown).

[0295] FIG. 16 provides the fragrance fidelity profile of Composition A2 (as disclosed in Table 18(b)), which comprises 15 wt % substantially non-odorous fragrance modulator Diisobutyl Adipate and 7 wt % Diamond Muguesia Magnifica Fragrance Example 5b. Addition of the substantially non-odorous fragrance modulator Diisobutyl Adipate maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition C2 comprising 7 wt % Traditional Muguesia Magnifica Fragrance Example 5a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator Diisobutyl Adipate to Composition B2 comprising 7 wt % Traditional Muguesia Magnifica Fragrance Example 5a does not result in improved fidelity of the floral character (data not shown).

[0296] FIG. 17 provides the fragrance fidelity profile of Composition J2 (as disclosed in Table 18(b)), which comprises 15 wt % substantially non-odorous fragrance modulator PPG-11 Stearyl Ether and 7 wt % Diamond Floral Magnifica Fragrance Example 4b. Addition of the substantially non-odorous fragrance modulator PPG-11 Stearyl Ether maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition L2 comprising 7 wt % Traditional Floral Magnifica Fragrance Example 4a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator PPG-11 Stearyl Ether to Composition K2 comprising 7 wt % Traditional Floral Magnifica Fragrance Example 4a does not result in improved fidelity of the floral character (data not shown).

[0297] FIG. 18 provides the fragrance fidelity profile of Composition J2 (as disclosed in Table 18(b)), which comprises 15 wt % substantially non-odorous fragrance modulator PPG-11 Stearyl Ether and 7 wt % Diamond Muguesia Magnifica Fragrance Example 5b. Addition of the substantially non-odorous fragrance modulator PPG-11 Stearyl Ether maintains the overwhelmingly dominate floral character for up to 6 hours. It is observed for Composition L2

comprising 7 wt % Traditional Muguesia Magnifica Fragrance Example 5a and no modulator, the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator PPG-11 Stearyl Ether to Composition K2 comprising 7 wt % Traditional Muguesia Magnifica Fragrance Example 5a does not result in improved fidelity of the floral character (data not shown).

[0298] Panelists are also asked to score the Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 for the dominance of the floral character. The results show the effect of the substantially non-odorous fragrance modulator and excessive levels of low volatile fragrance materials for any one of Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 on fidelity of the floral character attributable to the volatile fragrance materials. It is observed that the floral character is perceived initially but then drops quickly over time. Addition of the substantially non-odorous fragrance modulator does not result in improved fidelity of the floral character as seen in any one of Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 (data not shown).

[0299] Panelists are further asked to score the compositions on a scale of 1 to 5, wherein 1 represents the fragrance profile remains unchanged and 5 represents a total change in the fragrance profile versus a control. The results of the panel test are averaged and plotted together with the confidence intervals. The results show the effect of the substantially non-odorous fragrance modulator and diamond fragrance materials for Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2. The presence of the substantially non-odorous fragrance modulator and diamond fragrance materials result in noticeable fidelity in fragrance characters. Particularly, noticeable fidelity in the floral aroms attributable to the volatile fragrance materials (data not shown).

Example 6

Analytical Evaporation Test Results

[0300] Using the analytical evaporation Test Method 3, it is possible to measure the amount of each component of a perfume mixture that remains as the fragrance mixture evaporates. Test compositions (MOD1 to MOD3) comprising a mixture of 10 volatile perfume materials, as disclosed in Table 11 (Fragrance Example 6), and a substantially non-odorous fragrance modulators, as disclosed in Tables 4(a) and 4(b), are introduced in the aluminum containers at the set temperature for pre-determined periods of time in accordance with the protocol described in Test Method 3. Indole is one of the components of the 10 PRMs mixture of Table 11. Control compositions containing the full 10 PRMs mixture as disclosed in Table 11 without the substantially non-odorous fragrance modulator are run alongside the test compositions. The average profile for the control composition is plotted against the individual profile for the indole component from the test composition containing the 10 PRMs mixture of Table 11 with the substantially non-odorous fragrance modulators. The error associated with the method is determined by running replicate evaporation experiments on the control composition. An average evapo-

ration profile of the control composition as well as the 95% confidence interval at each time point are calculated from the replicates.

[0301] It is useful to consider the difference (Δ) in the % of remaining fragrance material between each of the test composition (MOD) and their respective control composition (REF) at each experimental time points (e.g., 30 mins, 60 mins and 180 mins) to determine the effect of the substantially non-odorous fragrance modulator on the volatile PRMs in a mixture. The difference (Δ) in the % of remaining of a given fragrance material is calculated as follows:

$$\Delta = \% \text{ remaining of given fragrance material in test composition (MOD)} - \% \text{ remaining of same fragrance material in control composition (REF)}$$

The difference (Δ) can then be plotted (data not shown) for each of the perfume materials in the mixture at each of the time points. For ease of reference, the applicant has summarize the effect of the substantially non-odorous fragrance modulator on only one volatile fragrance component (e.g., indole) of the mixture, to serve as a representative of all of the volatile fragrance materials.

[0302] (a) Effect of PPG-3 Myristyl Ether on Compositions Having Volatile Fragrance Materials

[0303] FIG. 19 shows the effect of the substantially non-odorous fragrance modulator PPG-3 Myristyl Ether (i.e., available as Tegosoft® APM/Modulator 7 from Table 4(a)) on the evaporation profile for a representative component (i.e., indole) of the test composition (MOD1). With reference to FIG. 19, PPG-3 Myristyl Ether has a difference (Δ) of 12% after 30 mins, 22% after 60 mins, and 60% after 3 hours. Addition of the PPG-3 Myristyl Ether in the test composition (MOD1) maintains the concentration of the volatile fragrance material indole from 0 hour up to 3 hours whilst the control composition (REF), in the absence of PPG-3 Myristyl Ether, drops in fragrance concentration over the 3 hours. Thus, PPG-3 Myristyl Ether acts to maintain the continued evaporation of the volatile fragrance material over time. Similar results are observed for the other volatile fragrance materials in the mixture (data not shown).

[0304] (b) Effect of Neopentyl Glycol Diethylhexanoate on Compositions Having Volatile Fragrance Materials

[0305] FIG. 20 shows the effect of the substantially non-odorous fragrance modulator Neopentyl Glycol Diethylhexanoate (i.e., available as Schercemol™ NGDO/Modulator 8 from Table 4(a)) on the evaporation profile for a representative component (i.e., indole) of the test composition (MOD2). With reference to FIG. 20, Neopentyl Glycol Diethylhexanoate has a difference (Δ) of 11% after 30 mins, 21% after 60 mins, and 53% after 3 hours. Addition of the Neopentyl Glycol Diethylhexanoate in the test composition (MOD2) maintains the concentration of the volatile fragrance material indole from 0 hour up to 3 hours whilst the control composition (REF), in the absence of Neopentyl Glycol Diethylhexanoate, drops in fragrance concentration over the 3 hours. Thus, Neopentyl Glycol Diethylhexanoate acts to maintain the continued evaporation of the volatile fragrance material over time. Similar results are observed for the other volatile fragrance materials in the mixture (data not shown).

[0306] (c) Effect of Kolliphor® EL on Compositions Having Volatile Fragrance Materials

[0307] FIG. 21 shows the effect of the substantially non-odorous fragrance modulator Kolliphor® EL (disclosed as

modulator 99 from Table 4(a)) on the evaporation profile for a representative component (i.e., indole) of the test composition (MOD3). With reference to FIG. 21, indole has a difference (Δ) of 15% after 30 mins, 28% after 60 mins, and 80% after 3 hours. Addition of the Kolliphor® EL in the test composition (MOD3) maintains the concentration of the volatile fragrance material indole from 0 hour up to 3 hours whilst the control composition (REF), in the absence of Kolliphor® EL, drops in fragrance concentration over the 3 hours. Thus, Kolliphor® EL acts to maintain the continued evaporation of the volatile fragrance material over time. Similar results are observed for the other volatile fragrance materials in the mixture (data not shown).

Example 7

Analytical Headspace Test Results

[0308] Using the analytical headspace Test Method 4, it is possible to demonstrate the character retention over time of a perfume mixture of a fragrance composition of the present invention vs. a control. Compositions disclosed in Tables 18(a)-18(e) are added to sealed vials in accordance with the protocol described in the Method Section, and the fragrance profile in the headspace are measured at specific time points through the use of headspace gas chromatography.

[0309] (a) Effects of the Substantially Non-Odorless Fragrance Modulators on Character Retention of Compositions Having Diamond Constructions Vs. Compositions Having Traditional Levels of Fragrance Materials

[0310] The test demonstrates the character retention over time of a fragrance composition. The results show the effect of the substantially non-odorless fragrance modulator and fragrance materials in a diamond construction for any one of the inventive Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2 on fragrance profile versus control Compositions C1, C2, C3, C4, C5, F1, F2, F4, I1, I2, I4, L1, L2, L4, O1, and O2 in the absence of the substantially non-odorless fragrance modulator. Alternatively, results show the effect of the substantially non-odorless fragrance modulator and fragrance materials in a diamond construction for any one of the inventive Compositions A1, A2, A3, A4, A5, D1, D2, D4, G1, G2, G4, J1, J2, J4, M1, and M2 on fragrance profile versus traditional Compositions B1, B2, B3, B4, B5, E1, E2, E4, H1, H2, H4, K1, K2, K4, N1, and N2 in the presence of the substantially non-odorless fragrance modulator. Fragrance profile fidelity, particularly of floral characters attributable to the volatile fragrance materials are maintained for up to at least 1 hour in the presence of the substantially non-odorless fragrance modulator whilst it drops in the absence of the substantially non-odorless fragrance modulator.

[0311] FIG. 22(a)(i) provides the headspace chromatogram for control Composition L2 after 10 mins of evaporation, wherein Composition L2 comprises 7 wt % Traditional Muguesia Magnifica Fragrance Example 5a and no modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Cyclogalbanate or Majantol®, Helional, Cymal or Jasmal and hydroxycitronellal; and (2) low volatile fragrance materials having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example: Hedione®

HC and Iso-E Super®. As the fragrance evaporates, the height of the peaks reduces significantly, particularly the peaks due to the high and moderate volatile fragrance materials. After 60 mins of evaporation, as shown in FIG. 22(a)(ii), only one substantial moderate volatile fragrance material peak remains, for example Helional. In contrast, the low volatile fragrance materials remain with substantial peaks for many perfume materials, for example Hedione® HC and Iso-E Super®. These chromatograms illustrate the loss of fragrance materials during evaporation, particularly the loss of the moderate volatile fragrance materials. Olfactively this is perceived as a loss in intensity and perception of these particular fragrance materials, particularly those that provide the floral characters.

[0312] FIG. 22(b)(i) provides the headspace chromatogram for inventive Composition J2 after 10 mins of evaporation, wherein Composition J2 comprises 7 wt % Diamond Muguesia Magnifica Fragrance Example 5b and 15 wt % PPG-11 Stearyl Ether substantially non-odorless fragrance modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Cyclogalbanate or Majantol®, Helional, Cymal or Jasmal and hydroxy citronellal; and (2) low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example Hedione® HC and Iso-E Super®. As the fragrance evaporates the height of the peaks reduces but not as much as compared to the control Composition L2, particularly the peaks due to the moderately volatile fragrance materials are maintained. After 60 mins of evaporation, as shown in FIG. 22(b)(ii), most of the moderate volatile fragrance materials peaks remain. This includes Cyclogalbanate or Majantol®, Helional, Cymal or Jasmal and hydroxy citronellal. The low volatile fragrance materials, Hedione® HC and Iso-E Super®, remain in the headspace but are not dominant when compared to Composition L2. These chromatograms illustrate the prolonged presence of the volatile fragrance materials in Composition J2 and the dominance of the headspace after 60 mins by the moderate volatile fragrance materials at the expense of the low volatile fragrance materials. Consumers will experience this as a fragrance with a prolonged intensity, particularly of the characters attributable to the volatile fragrance materials, most particularly of the floral characters.

[0313] FIG. 23(a)(i) provides the headspace chromatogram for control Composition C4 after 10 mins of evaporation, wherein Composition C4 comprises the Traditional Muguesia Magnifica Fragrance Example 5a and no modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Cyclogalbanate or Majantol®, Phenethyl alcohol, Cymal or Jasmal, and hydroxy citronellal and (2) low volatile fragrance materials having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example: Hedione® HC and Iso-E Super®. As the fragrance evaporates, the height of the peaks reduces significantly, particularly the peaks due to the moderate volatile fragrance materials. After 60 mins of evaporation, as shown in FIG.

23(a)(ii), only two small moderate volatile fragrance material peaks remain, Helional and Cyclogalbanate or Majantol. In contrast, the low volatile fragrance materials remain with many peaks for many perfume materials, for example Hedione® HC and Iso-E Super®. These chromatograms illustrate the loss of fragrance materials during evaporation, particularly the loss of the moderate volatile fragrance materials. Olfactively this is perceived as a loss in intensity and perception of these particular fragrance materials, particularly those that provide the floral characters.

[0314] FIG. 23(b)(i) provides the headspace chromatogram for inventive Composition A4 after 10 mins of evaporation, wherein Composition A4 comprises the Diamond Muguesia Magnifica Fragrance Example 5b and PPG-20 Methyl Glucose Ether (i.e., GLUCAM™ P-20) substantially non-odorous fragrance modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Cyclogalbanate or Majantol®, Phenethyl alcohol, Cymal or Jasmal, and hydroxycitronellal; and (2) low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example Hedione® HC and Iso-E Super®. As the fragrance evaporates the height of the peaks reduces but not as much as compared to the control Composition C4, particularly the peaks due to the moderate volatile fragrance materials are maintained. After 60 mins of evaporation, as shown in FIG. 23(b)(ii), most of the moderate volatile fragrance materials peaks remain. This includes Cyclogalbanate or Majantol®, Phenethyl alcohol, Cymal or Jasmal, and hydroxycitronellal. The low volatile fragrance materials, Hedione® HC and Iso-E Super®, remain in the headspace but are not dominant when compared to Composition C4. These chromatograms illustrate the prolonged presence of the volatile fragrance materials in Composition A4 and the dominance of the headspace after 60 mins by the moderate volatile fragrance materials at the expense of the low volatile fragrance materials. Olfactively this is perceived as a fragrance with a prolonged intensity, particularly of the characters attributable to the moderate volatile fragrance materials, most particularly of the floral characters.

[0315] FIG. 24(a)(i) provides the headspace chromatogram for control Composition L4 after 10 mins of evaporation, wherein Composition L4 comprises the Traditional Floral Magnifica Fragrance Example 4a and no modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Pyranol (Florol), Cyclogalbanate or Majantol®, Cymal or Jasmal, and hydroxycitronellal and (2) low volatile fragrance materials having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example: Hedione® HC and Iso-E Super®. As the fragrance evaporates, the height of the peaks reduces significantly, particularly the peaks due to the moderate volatile fragrance materials. After 60 mins of evaporation, as shown in FIG. 24(a)(ii), only a few small moderate volatile fragrance material peaks remain, Cymal or Jasmal and Helional. In contrast, the low volatile fragrance materials remain with many peaks for many perfume materials, for example Hedione® HC and

Iso-E Super®. These chromatograms illustrate the loss of fragrance materials during evaporation, particularly the loss of the moderate volatile fragrance materials. Olfactively this is perceived as a loss in intensity and perception of these particular fragrance materials, particularly those that provide the floral characters.

[0316] FIG. 24(b)(i) provides the headspace chromatogram for inventive Composition J4 after 10 mins of evaporation, wherein Composition J4 comprises the Diamond Floral Magnifica Fragrance Example 4b and Isocetyl Alcohol (i.e., Ceraphyl® ICA) substantially non-odorous fragrance modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Pyranol (Florol), Cyclogalbanate or Majantol®, Cymal or Jasmal, and hydroxy citronellal; and (2) low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example Hedione® HC and Iso-E Super®. As the fragrance evaporates the height of the peaks reduces but not as much as compared to the control Composition C4, particularly the peaks due to the moderate volatile fragrance materials are maintained. After 60 mins of evaporation, as shown in FIG. 24(b)(ii), most of the moderate volatile fragrance materials peaks remain. This includes Pyranol (Florol), Cyclogalbanate or Majantol®, Cymal or Jasmal, and hydroxy citronellal. The low volatile fragrance materials, Hedione® HC and Iso-E Super®, remain in the headspace but are not dominant when compared to Composition C4. These chromatograms illustrate the prolonged presence of the volatile fragrance materials in Composition A4 and the dominance of the headspace after 60 mins by the moderate volatile fragrance materials at the expense of the low volatile fragrance materials. Olfactively this is perceived as a fragrance with a prolonged intensity, particularly of the characters attributable to the moderate volatile fragrance materials, most particularly of the floral characters.

[0317] FIG. 25(a)(i) provides the headspace chromatogram for control Composition 14 after 10 mins of evaporation, wherein Composition 14 comprises the Traditional Muguesia Magnifica Fragrance Example 5a and no modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Cyclogalbanate or Majantol®, Helional, Cymal or Jasmal, and hydroxy citronellal and (2) low volatile fragrance materials having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example: Hedione® HC and Iso-E Super®. As the fragrance evaporates, the height of the peaks reduces significantly, particularly the peaks due to the high and moderate volatile fragrance materials. After 60 mins of evaporation, as shown in FIG. 25(a)(ii), only one substantial moderate volatile fragrance material peak remains, Helional. In contrast, the low volatile fragrance materials remain with substantial peaks for many perfume materials, for example Hedione® HC and Iso-E Super®. These chromatograms illustrate the loss of fragrance materials during evaporation, particularly the loss of the moderate volatile fragrance materials. Olfactively this is perceived as a loss in intensity and perception

of these particular fragrance materials, particularly those that provide the floral characters.

[0318] FIG. 25(b)(i) provides the headspace chromatogram for inventive Composition G4 after 10 mins of evaporation, wherein Composition G4 comprises the Diamond Muguesia Magnifica Fragrance Example 5b and Undecyl Glucoside (i.e., Simulsol® SL 11W) substantially non-odorous fragrance modulator. The headspace is a complex fragrance and many perfume materials can be observed spanning a range of volatility and characters. This includes: (1) moderate volatile fragrance materials having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C., for example: Cyclogalbanate or Majantol®, Helional, Cymal or Jasmal and hydroxy citronellal; and (2) low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C., for example Hedione® HC and Iso-E Super®. As the fragrance evaporates the height of the peaks reduces but not as much as compared to the control Composition 14, particularly the peaks due to the moderately volatile fragrance materials are maintained. After 60 mins of evaporation, as shown in FIG. 25(b)(ii), most of the moderate volatile fragrance materials peaks remain. This includes Cyclogalbanate or Majantol®, Helional, Cymal or Jasmal and hydroxycitronellal. The low volatile fragrance materials, Hedione® HC and Iso-E Super®, remain in the headspace but are not dominant when compared to Composition 14. These chromatograms illustrate the prolonged presence of the volatile fragrance materials in Composition G4 and the dominance of the headspace after 60 mins by the moderate volatile fragrance materials at the expense of the low volatile fragrance materials. Olfactively this is perceived as a fragrance with a prolonged intensity, particularly of the characters attributable to the moderate volatile fragrance materials, most particularly of the floral characters.

[0319] It should be understood that every maximum numerical limitation given throughout this specification includes every lower numerical limitation, as if such lower numerical limitations were expressly written herein. Every minimum numerical limitation given throughout this specification will include every higher numerical limitation, as if such higher numerical limitations were expressly written herein. Every numerical range given throughout this specification will include every narrower numerical range that falls within such broader numerical range, as if such narrower numerical.

[0320] The dimensions and values disclosed herein are not to be understood as being strictly limited to the exact numerical values recited. Instead, unless otherwise specified, each such dimension is intended to mean both the recited value and a functionally equivalent range surrounding that value. For example, a dimension disclosed as “40 mm” is intended to mean “about 40 mm”

[0321] Every document cited herein, including any cross referenced or related patent or application and any patent application or patent to which this application claims priority or benefit thereof, is hereby incorporated herein by reference in its entirety unless expressly excluded or otherwise limited. The citation of any document is not an admission that it is prior art with respect to any invention disclosed or claimed herein or that it alone, or in any combination with any other reference or references, teaches, suggests or discloses any such invention. Further, to the extent that any meaning or definition of a term in this document conflicts

with any meaning or definition of the same term in a document incorporated by reference, the meaning or definition assigned to that term in this document shall govern.

[0322] While particular embodiments of the present invention have been illustrated and described, it would be obvious to those skilled in the art that various other changes and modifications can be made without departing from the spirit and scope of the invention. It is therefore intended to cover in the appended claims all such changes and modifications that are within the scope of this invention.

What is claimed is:

1. A composition comprising:

- (i) a fragrance component present in an amount of from about 0.04 wt % to about 30 wt %, relative to the total weight of the composition, and wherein the fragrance component comprises:
 - (a) at least one low volatile fragrance material having a vapor pressure less than 0.001 Torr (0.000133 kPa) at 25° C. present in an amount of from about 10 wt % to about 30 wt %, relative to the total weight of the fragrance component;
 - (b) at least one moderate volatile fragrance material having a vapor pressure in the range of 0.1 Torr to 0.001 Torr (0.0133 kPa to 0.000133 kPa) at 25° C. present in an amount of from about 40 wt % to about 80 wt %, relative to the total weight of the fragrance component; and
 - (c) at least one high volatile fragrance material having a vapor pressure greater than 0.1 Torr (0.0133 kPa) at 25° C. present in an amount of from about 1 wt % to about 30 wt %, relative to the total weight of the fragrance component;
- (ii) at least one substantially non-odorous fragrance modulator present in the amount of from about 0.1 wt % to about 20 wt %, relative to the total weight of the composition;
- (iii) a volatile solvent present in an amount of from about 50 wt % to about 80 wt %, relative to the total weight of the composition; and
- (iv) optionally water.

2. The composition according to claim 1, wherein:

- (i) the fragrance component is present in an amount from about 1 wt % to about 30 wt %, relative to the total weight of the composition; and wherein the fragrance component comprises:
 - (a) at least one low volatile fragrance material present in an amount less than about 30 wt %, relative to the total weight of the fragrance component;
 - (b) at least one moderate volatile fragrance material present in an amount of at least about 45 wt %, relative to the total weight of the fragrance component; and
 - (c) at least one high volatile fragrance material present in an amount of less than about 25 wt %, relative to the total weight of the fragrance component;
- (ii) at least one substantially non-odorous fragrance modulator present in the amount of from about 0.5 wt % to about 18 wt %, relative to the total weight of the composition;
- (iii) the volatile solvent present in an amount of from about 55 wt % to about 75 wt %, relative to the total weight of the composition; and

(iv) the water present in an amount of from 0 wt % to about 20 wt %, relative to the total weight of the composition.

3. The composition according to claim 1, wherein:

(i)(a) the low volatile fragrance material is selected from at least 1 material, or at least 2 materials, or at least 3 materials from the group of Low Volatile Fragrance Materials 1-112, IUPAC Names, of Table 1 and mixtures thereof.

4. The composition according to claim 3, wherein:

(i)(a) the low volatile fragrance material is selected from the group of Table 1 Low Volatile Fragrance Materials 1, 4-6, 8, 12-16, 18, 22-25, 27-28, 31, 34-37, 41, 45, 47, 52-55, 57, 60, 61, 63, 65, 68, 69-74, 75, 78, 80, 83-84, 89, 94, 99, 102, 104, 106-108, and mixtures thereof; and

(ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odorously Fragrance Modulators 1-5, and mixtures thereof.

5. The composition according to claim 3, wherein:

(i)(a) the low volatile fragrance material is selected from the group of Table 1 Low Volatile Fragrance Materials 1-6, 8-9, 12-14, 16, 18-19, 23, 25-28, 31, 34-35, 37, 41-42, 45, 47-49, 53-55, 57-60, 63, 65, 69, 71-73, 75, 78-79, 81, 84-85, 95, 100, 103, 105, 107, 109, and mixtures thereof; and

(ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odorously Fragrance Modulators 6-8, and mixtures thereof.

6. The composition according to claim 1, wherein:

(i)(b) the moderate volatile fragrance material is selected from at least 1 material, or at least 2 materials, or at least 3 materials from the group of Table 2 Moderate Volatile Fragrance Materials 1-319, and mixtures thereof.

7. The composition according to claim 6, wherein:

(i)(b) the moderate volatile fragrance material is selected from the group of Table 2 Moderate Volatile Fragrance Materials 1-9, 11-12, 14-15, 17-18, 20-25, 27-35, 37-38, 39-43, 45-46, 48-53, 55-61, 63, 65, 67-71, 73-77, 79, 81-84, 86-91, 93-122, 124-125, 130-131, 133-135, 137, 139-145, 147-149, 151, 153-155, 157, 161-162, 164-169, 171-191, 193, 195-198, 200-203, 205-215, 218-219, 221, 223-241, 243, 245-250, 252-255, 257-262, 264-265, 267-268, 272, 273-276, 279-300, 302-304, 306, 308-310, 312-319, and mixtures thereof; and

(ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odorously Fragrance Modulators 1-5, and mixtures thereof.

8. The composition according to claim 6, wherein:

(i)(b) the moderate volatile fragrance material is selected from the group of Table 2 Moderate Volatile Fragrance Materials 1-9, 11-12, 14-15, 17-18, 20-25, 27-35, 37-38, 41-42, 45-46, 49, 51-53, 55, 57-59, 65-70, 73, 75-77, 79-80, 82, 86-89, 91-94, 98, 101-107, 111-113, 115-122, 124-125, 130-133, 135, 137, 139-143, 145, 147-149, 151, 153-155, 157-159, 161-162, 164-168, 171-180, 182-183, 187-191, 193, 195-198, 200-203, 205-213, 218-219, 221-222, 224-229, 231-241, 243, 245-250, 252, 253, 254-255, 257-263, 264-265, 267-

269, 271, 273-276, 279-300, 302-304, 306, 308-310, 312, 314-319, and mixtures thereof; and

(ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odorously Fragrance Modulators 6-8, and mixtures thereof.

9. The composition according to claim 1, wherein:

(i)(c) the high volatile fragrance material is selected from at least 1 material, or at least 2 materials, or at least 3 materials from the group of High Volatile Fragrance Materials 1-130, IUPAC Names, of Table 3 and mixtures thereof.

10. The composition according to claim 9, wherein:

(i)(c) the high volatile fragrance material is selected from the group of Table 3 High Volatile Fragrance Materials 1, 2, 6, 8, 9, 12, 14, 19, 36, 39, 46, 47, 56, 57, 58, 60, 62, 74, 78, 93, 94, 96, 100, 106, 111, 117, 119, 120, 128, 129, 131-135, and mixtures thereof; and

(ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odorously Fragrance Modulators 1-5, and mixtures thereof.

11. The composition according to claim 9, wherein:

(i)(c) the high volatile fragrance material is selected from the group of Table 3 High Volatile Fragrance Materials 1, 2, 6, 8, 9, 12, 14, 19, 36, 39, 46, 47, 56, 57, 58, 60, 62, 74, 78, 93, 94, 96, 100, 106, 111, 117, 119, 120, 128, 129, 131-135, and mixtures thereof; and

(ii) the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odorously Fragrance Modulators 6-8, and mixtures thereof.

12. The composition according to claim 1, wherein the substantially non-odorous fragrance modulator is selected from the group consisting of:

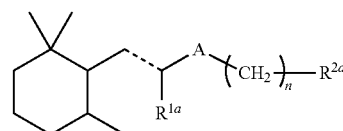
(a) Methyl Glucoside Polyol; Ethyl Glucoside Polyol; Propyl Glucoside Polyol; and their mixtures;

(b) Isocetyl Alcohol;

(c) PPG-3 Myristyl Ether; Neopentyl Glycol Diethylhexanoate; and their mixtures;

(d) Sucrose Laurate, Sucrose Dilaurate, Sucrose Myristate, Sucrose Palmitate, Sucrose Stearate, Sucrose Distearate, Sucrose Tristearate, and their mixtures;

(e) Trimethylcyclohexane derivatives having the formula (I):



wherein:

n is 0, 1 or 2;

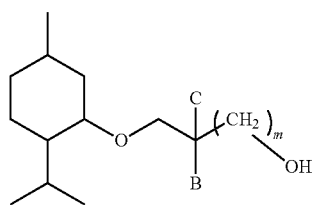
A is C=O or CH—OH;

R^{1a} is hydrogen or methyl;

R^{2a} is a $\text{C}_2\text{-C}_{10}$ hydrocarbon group; and

----- is a saturated or unsaturated carbon-carbon bond;

(f) L-menthoxy ether derivatives having the formula (II):



(II)

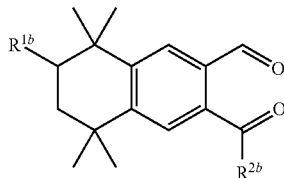
wherein:

m is 0, 1 or 2;

B is hydrogen or OH; and

C is hydrogen or methyl;

(g) Tetra-hydronaphthalene derivatives having the formula (III):



(III)

wherein:

R^{1b} is hydrogen or methyl; and

R^{2b} is alkyl;

(h) Hyaluronic acid disaccharide sodium salt, sodium hyaluronate and their mixtures;

(i) Ether derivatives having the formula (IV) or formula (V):



wherein:

C₅H₇O_m is a pentose residue, wherein l is an integer from 6 to 9, and m is an integer from 1 to 4;

n is an integer from 1 to 4; and

R^{1c} is C₄-C₂₀ hydrocarbon group; and



wherein:

C₆H_xO_y is a hexose residue, wherein x is an integer from 7 to 11, and y is an integer from 1 to 5;

z is an integer from 1 to 5; and

R^{1d} is C₄-C₂₀ hydrocarbon group; and

(j) Diethylene Glycol Ether derivatives having the formula (VI) or formula (VII):



wherein:

C₅H₇O_d is a pentose residue, wherein c is an integer from 6 to 8, and d is an integer from 1 to 3;

e is an integer from 2 to 4; and

R^{1e} is C₁-C₆ alkyl group; and



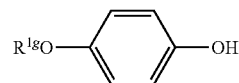
wherein:

C₆H₇O_g is a hexose residue, wherein f is an integer from 7 to 10, and g is an integer from 1 to 4;

h is an integer from 2 to 5; and

R^{1f} is C₁-C₆ alkyl group;

(k) Hydroquinone Glycoside derivatives having the formula (VIII):



(VIII)

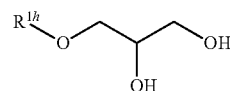
wherein:

R^{1g} is selected from the group consisting of: (i) pentose residue, hexose residue, aminosaccharide residue, uronic acid residue and their mixtures; (ii) methylated versions of group (i); and (iii) mixtures of groups (i) and (ii); and

(l) Propylene Glycol Propyl Ether; Dicycetyl Ether; Polyglycerin-4 Ethers; Isoceteth-5; Isoceteth-7; Isoceteth-10; Isoceteth-12; Isoceteth-15; Isoceteth-20; Isoceteth-25; Isoceteth-30; Disodium Lauroamphodipropionate; Hexaethylene glycol monododecyl ether; and their mixtures;

(m) Neopentyl Glycol Diisononanoate; Cetearyl Ethylhexanoate; and their mixtures;

(n) Glyceryl Ether derivatives having the formula (IX):



(IX)

wherein:

R^{1h} is C₄-C₁₂ aliphatic hydrocarbon group;

(o) Panthenol Ethyl Ether, DL-Panthenol and their mixtures;

(p) Aliphatic Dibasic Acid Diester derivatives having the formula (X):



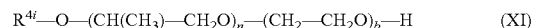
wherein:

R¹ⁱ is C₄-C₅ alkyl;

R²ⁱ is C₄ alkylene; and

R³ⁱ is C₄-C₅ alkyl; and

(q) Aliphatic Ether derivatives having the formula (XI):



wherein:

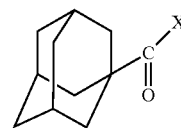
a and b are integers such that the sum of a and b is from 1 to 4; and

R⁴ⁱ is an aliphatic chain comprising from 8 to 18 carbons;

(r) N-hexadecyl n-nonanoate, Noctadecyl n-nonanoate and their mixtures;

(s) Tricyclodecane Amide derivatives selected from the group consisting of:

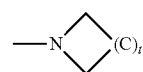
(i) the compounds of formula (XII):



(XII)

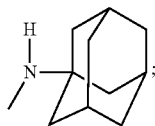
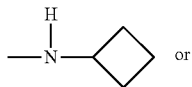
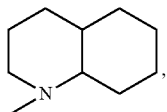
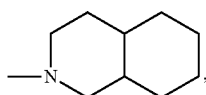
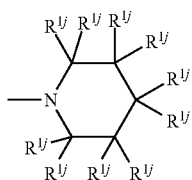
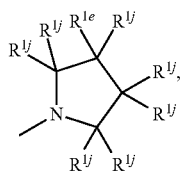
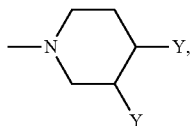
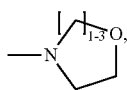
wherein:

X is selected from:

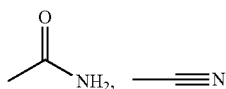


(Xa)

-continued



t is 1 to 8;
Y is hydrogen,



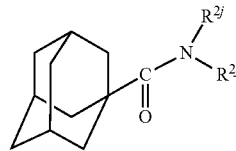
or a halogen; and
each R^{Lj} is independently selected from a hydrogen, or C₁-C₄ alkyl;

(ii) the compounds of formula (XIII):

(Xb)

(XIII)

(Xc)



wherein:

(Xd)

each R^{2j} is independently selected from a hydrogen, methyl, ethyl or C₃-C₁₈ alkyl, cycloalkyl or cycloheteroalkyl, with the proviso that both R^{2e} groups are not hydrogen; and

(iii) mixtures of the compounds of formulae (XII) and (XIII); and

(t) mixtures thereof.

(Xe)

13. The composition according to claim 12, wherein the substantially non-odorous fragrance modulator is selected from the group of Table 4(a) Substantially Non-Odororous Fragrance Modulators 1-103, Table 4(b) Substantially Non-Odororous Fragrance Modulators 1-189, and mixtures thereof.

14. The composition according to claim 1, wherein the volatile solvent is a branch or unbranched C₁ to C₁₀ alkyl, akenyl or alkynyl group having at least one alcohol moiety.

(Xf)

15. The composition according to claim 1, wherein the composition maintains the perceived fragrance profile, particularly the characters attributable to the moderate volatile fragrance material and/or high volatile fragrance material, to remain substantively unchanged from application up to 2 hrs, 3 hrs, 4 hrs, 5 hrs, 6 hrs or 8 hrs after application vs. a control composition that does not include a diamond construction fragrance formulation and the substantially non-odorous fragrance modulator, as determined according to the Odour Test as described herein.

(Xg)

16. The composition according to claim 1, wherein the composition is a fine fragrance composition in the form of a perfume concentrate, a perfume, a parfum, an eau de toilette, an eau de parfum, or a cologne.

(Xh)

17. The composition according to claim 1, wherein the composition is in the form of a body splash or a body spray.

(Xi)

18. The composition according to claim 1, wherein the substantially non-odorous fragrance modulator does not comprise:

- (i) isocetyl alcohol, PPG-3 myristyl ether, neopentyl glycol diethylhexanoate or their mixtures; and
- (ii) n-hexadecyl n-nonanoate, n-octadecyl n-nonanoate or their mixtures.

19. A method for imparting, intensifying, or modifying an odour on human skin or human hair, comprising applying to human skin and/or human hair the composition according to claim 1.

20. The method according to claim 19, wherein the method is preferably for imparting, intensifying or modifying the longevity of a floral character on human skin or human hair, wherein the perceived intensity of the floral character at 1 hr, 2 hrs, 3 hrs or 6 hrs after application is greater than a control composition that does not include the substantially non-odorous fragrance modulator as determined by the panel method as disclosed herein, and wherein the floral character is selected from the group consisting of lavender-type note, a rose-type note, a lily of the valley-type

note, a muguet-type note, a jasmine-type note, a magnolia-type note, a cyclamen-type note, a hyacinth-type note, a lilac-type note, an orange blossom-type note, a cherry blossom-type note, a peony-type note, a lotus-type note, a linden blossom-type note, an osmanthus-type note, a lilac-type note, a heliotrope-type note, a violet-type note, an orris-type note, a tiare-type note, a patchouli-type note and the like.

21. A perfuming consumer product or article comprising a composition according to claim 1, wherein the perfuming consumer product is selected from the group consisting of a fabric care product, an air care product or a home care product.

* * * * *