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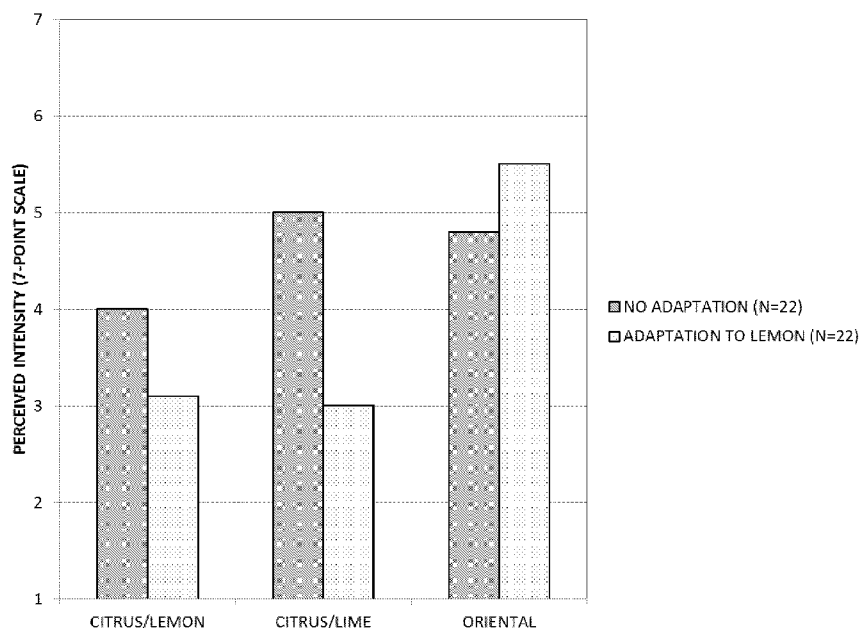
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(54) Title: PERFUMING COMPOSITIONS

Figure 2



(57) Abstract: The aspects presented herein provide fragrance compositions having an olfactive profile that changes with time, wherein the fragrance compositions comprise at least two contrasting perfume accords that provide an olfactory modulating effect, wherein the perfume formulation delivers a desirable scent with increased perceived intensity and improved longevity of perception.



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PERFUMING COMPOSITIONS

CROSS REFERENCE TO RELATED APPLICATIONS

[001] This application claims priority to United States Provisional Patent Application Serial No. 62/357,317, filed June 30, 2016, and European Patent Application Serial No. 5 16203542.2, filed December 12, 2016, the entire contents of which are hereby incorporated by reference in their entirety.

FIELD OF THE INVENTION

[002] The present invention relates to the field of perfumery. In particular, fragrance compositions having an olfactive profile that changes with time, wherein the fragrance 10 compositions comprise at least two contrasting perfume accords that provide an olfactory modulating effect, wherein the perfume formulation delivers a desirable scent with increased perceived intensity and improved longevity of perception.

BACKGROUND

[003] Consumers are looking for different sensory experiences, and the perfume 15 industry is constantly seeking for solutions to answer that demand and in particular for ways to prolong the perfume experience over time. The industry is also keen on finding solutions to phenomenon referred to as perfume habituation and perfume adaptation resulting in a decrease of perceived intensity over time.

SUMMARY

20 [004] One aspect presented herein provides a perfume composition comprising at least two perfuming accords,

wherein a first perfume accord of the at least two perfuming accords comprises perfuming compounds dominated by a first olfactive note, wherein a second perfume accord of the at least two perfuming accords 25 comprises perfuming compounds dominated by a second olfactive note, wherein the first and second olfactive notes are contrasting notes,

wherein the first perfume accord is present in the perfume composition in an amount sufficient for the first olfactive note to be perceived by a subject at a first time,

5 wherein the second perfume accord is present in the perfume composition in an amount sufficient for the second olfactive note to be perceived by a subject at a second time, and

wherein the perception of the first olfactive note and the second olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

10 **[005]** In one aspect, the second time is after the first time.

[006] In one aspect, the first perfume accord comprises perfuming compounds having a volatility ranging from 70,000 to 100 $\mu\text{g/l}$ in air.

[007] In one aspect, the second perfume accord comprises perfuming compounds having a volatility ranging from 99 to 50 $\mu\text{g/l}$ in air.

15 **[008]** In one aspect, the sufficient amount of the first perfume accord is from 30% to 70% by weight of the perfume composition.

[009] In one aspect, the sufficient amount of the second perfume accord is from 30% to 70% by weight of the perfume composition.

20 **[010]** In one aspect, the first perfume accord and the second perfume accord are present in the perfume composition in a weight ratio ranging from 3:1 to 1:3.

[011] In one aspect, the first perfume accord and the second perfume accord are present in the perfume composition at a weight ratio of 1:1.

25 **[012]** In one aspect, the perception of the second olfactive note after the first olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

[013] In one aspect, the perfume composition further comprises a third perfume accord comprising perfuming compounds dominated by a third olfactive note, wherein the third perfume accord is present in the perfume composition in an amount sufficient for the third olfactive note to be perceived by a subject at a third time.

5 [014] In one aspect, the sufficient amount of the third perfume accord is from 30% to 70% by weight of the perfume composition.

[015] In one aspect, the first perfume accord the second perfume accord, and the third perfume accord are present in the perfume composition at a weight ratio of 1:1:1.

10 [016] In one aspect, the third olfactive note and the second olfactive note are contrasting notes.

[017] In one aspect, the third olfactive note and the first olfactive note are contrasting notes.

[018] In one aspect, the third time is after the second time.

15 [019] In one aspect, the third perfume accord comprises perfuming compounds having a volatility ranging from 49 to 0.1 µg/l in air.

[020] In one aspect, the first time is less than one hour after exposure of the subject to the perfuming composition.

[021] In one aspect, the second time is from one to six hours after exposure of the subject to the perfuming composition.

20 [022] In one aspect, the second time is from one to four hours after exposure of the subject to the perfuming composition.

[023] In one aspect, the third time is from four to six hours after exposure of the subject to the perfuming composition.

[024] In one aspect, the perception of the first olfactive note, the second olfactive note, and the third olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

5 [025] In one aspect, the perception of the third olfactive note after the second olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

[026] In one aspect, the first olfactive note is selected from the group consisting of floral, water, green, fruity and citrus olfactive notes.

10 [027] In one aspect, the second olfactive note is selected from the group consisting of floral, fruity, citrus, sweet, oriental, woody and meringue olfactive notes.

[028] In one aspect, the third olfactive note is selected from the group consisting of floral, fruity, citrus, sweet, oriental, woody and meringue olfactive notes.

15 [029] In one aspect, the the first perfume accord is dominated by an olfactive note consisting of lemon and the second perfume accord is dominated by a second olfactive note consisting of oriental.

[030] In one aspect, the first perfume accord is dominated by an olfactive note consisting of lemon and the second perfume accord is dominated by an olfactive note consisting of meringue.

20 [031] In one aspect, the first perfume accord is dominated by an olfactive note consisting of citrus, floral, fruity and green, and the second perfume accord is dominated by an olfactive note consisting of a floral, fruity and sweet.

25 [032] In one aspect, the first perfume accord is dominated by an olfactive note consisting of citrus and green, the second perfume accord is dominated by an olfactive note consisting of a floral, and fruity, and the third perfume accord is dominated by an olfactive note consisting of floral, fruity, citrus and sweet.

[033] In one aspect, the perfume composition is a pre-formulated perfume composition, and the first perfume accord is added to the pre-formulated perfume composition in an amount sufficient for the first olfactive note to be perceived by the subject at the first time.

- 5 [034] In one aspect, the perfume composition is a pre-formulated perfume composition, and the second perfume accord is added to the pre-formulated perfume composition in an amount sufficient for the second olfactive note to be perceived by the subject at the second time.

- 10 [035] In one aspect, the perfume composition is a pre-formulated perfume composition, and the third perfume accord is added to the pre-formulated perfume composition in an amount sufficient for the third olfactive note to be perceived by the subject at the third time.

[036] One aspect presented herein provides a manufactured product comprising the perfume composition according to an aspect presented herein.

- 15 [037] In one aspect, the manufactured product is selected from the group consisting of a perfume, eau de toilette, home care product and a personal care product.

[038] One aspect presented herein provides a method to reduce, prevent, or suppress a reduced perception of the perfume composition by a subject over time, comprising exposing the subject to a perfume composition according an aspect presented herein.

- 20 [039] One aspect presented herein provides a method to reduce, prevent, or suppress a reduced perception of the perfume composition by a subject over time, comprising dispensing sequentially at least partly in the air, the first perfume accord dominated by a first olfactive note followed by the second perfume comprising perfuming compounds forming a second perfume accord dominated by a second olfactive note.

- 25 [040] In one aspect, the sequential dispensing is performed using a device.

[041] In one aspect, the first accord and the second accord are physically separated within the device.

BRIEF DESCRIPTION OF THE FIGURES

- [042] Figure 1 shows a fragrance wheel showing the inferred relationships among olfactory groups based upon similarities and differences in their odor according to some aspects presented herein.
- 5 [043] Figure 2 shows a graph of perceived perfume intensities after sequential exposure to contrasting and non-contrasting accords, according to some aspects presented herein.
- [044] Figure 3 shows a graph of perceived perfume intensities after sequential exposure to contrasting and non-contrasting accords, according to some aspects presented herein.
- [045] Figure 4 shows a graph of perceived perfume intensities after sequential exposure
10 to contrasting and non-contrasting accords, according to some aspects presented herein.
- [046] Figure 5 shows the olfactive profile of a reference fine fragrance at the times indicated. The bars at each time point, moving from left to right, represent the number of subjects that perceived green, citrus, fruity, floral, woody, musk, or sweet/ gourmand notes, or lack of any note.
- 15 [047] Figure 6 shows the olfactive profile of a reference fine fragrance at the times indicated, after a subject has been exposed to the fine fragrance for two minutes. The bars at each time point, moving from left to right, represent the number of subjects that perceived green, citrus, fruity, floral, woody, musk, or sweet/ gourmand notes, or lack of any note.
- 20 [048] Figure 7 shows the olfactive profile of fine fragrance according to one aspect presented herein at the times indicated. The bars at each time point, moving from left to right, represent the number of subjects that perceived green, citrus, fruity, floral, woody, musk, or sweet/ gourmand notes, or lack of any note.
- [049] Figure 8 shows the olfactive profile of a fine fragrance according to one aspect
25 presented herein at the times indicated, after a subject has been exposed to the fine fragrance for two minutes. The bars at each time point, moving from left to right,

represent the number of subjects that perceived green, citrus, fruity, floral, woody, musk, or sweet/ gourmand notes, or lack of any note.

[050] Figure 9 shows the olfactive profile of fine fragrance according to one aspect presented herein at the times indicated. The bars at each time point, moving from left to
5 right, represent the number of subjects that perceived green, citrus, fruity, floral, woody, musk, or sweet/ gourmand notes, or lack of any note.

[051] Figure 10 shows the olfactive profile of a fine fragrance according to one aspect presented herein at the times indicated, after a subject has been exposed to the fine
10 fragrance for two minutes. The bars at each time point, moving from left to right, represent the number of subjects that perceived green, citrus, fruity, floral, woody, musk, or sweet/ gourmand notes, or lack of any note.

[052] Figure 11 shows the mean decrease in perceived intensity of the fine fragrances evaluated in Example 4.

DETAILED DESCRIPTION

15 [053] In the following description, reference is made to specific embodiments which may be practiced, which is shown by way of illustration. These embodiments are described in detail to enable those skilled in the art to practice the invention described herein, and it is to be understood that other embodiments may be utilized and that logical changes may be made without departing from the scope of the aspects presented herein.
20 The following description of example embodiments is, therefore, not to be taken in a limited sense, and the scope of the various aspects presented herein is defined by the appended claims.

[054] The Abstract is provided to comply with 37 C.F.R. §1.72(b) to allow the reader to quickly ascertain the nature and gist of the technical disclosure. The Abstract is
25 submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims.

[055] Consumers are looking for different sensory experiences, and the perfume industry is constantly seeking for solutions to answer that demand and in particular for ways to prolong the perfume experience over time. The industry is also keen on finding solutions to phenomenon referred to as perfume habituation and perfume adaptation
5 resulting in a decrease of perceived intensity over time. The present disclosure provides a solution to the above-mention problems in particular to the decrease of perfume perception over time and offers a novel solution to improve fragrance longevity and satisfy the consumer needs for new sensory experience.

[056] Odor descriptors are well known and widely use to describe the odor character of
10 a fragrance. Several procedures for describing odor characters are known and have been the object of many publications, and sensory maps for odor descriptors (olfactive note) are largely known and used by the perfumery industry. In 2009 an approach to reach a standard sensory map of perfumery odor perception has been described by M. Zarzo and David Stanton in *Attention, Perception and Psychophysicy*, 2009, 71(2) 225-247.
15 Therefore, in some aspects, a perfume accord can be defined with a number of descriptors.

[057] As used herein, the term “contrasting accords”, “contrasting notes” or “contrasting pairs” is meant to designate accords for which the respective dominant olfactive notes are belonging to odor families that are distant from one another. Tools such as the fragrance
20 wheel for instance can be used to define those fragrance families. An exemplar fragrance wheel is shown in Figure 1.

[058] Referring to the classification shown in Figure 1, olfactive notes adjacent to each other on the fragrance wheel are not considered contrasting olfactive notes. However, olfactive notes separated by at least one adjacent olfactive note are considered contrasting
25 olfactive notes, wherein the degree of contrast is directly proportional to the degree of separation. For example, by way of illustration, a dry woods olfactive note is opposite to a soft floral olfactive note, and therefore the degree of contrast is considered to be greater than the contrast between a soft floral olfactive note and a soft oriental olfactive note.

[059] Contrasting accords in the context of the invention can be defined as accords for which there is no more than one descriptor shared between the two accords, preferably for which there is no descriptor shared between the two accords. As an example, “sweet” and “aromatic” are strongly correlated and share more than one descriptor. Sweet is also correlated with powdery. Aromatic and powdery are not directly correlated with one another but they both share the correlation with sweet, so they are not contrasting in the context of the invention.

[060] An alternate way to look at contrasting accords is to use the notion of cross-adaptation. Cross-adaptation is well-known in the perfumery technical field and accords for which there is no perceptual cross-adaptation between the accords constitutes contrasting accords.

[061] Alternatively, in some aspects, olfactive notes may be classified as contrasting according to the methods disclosed in Zarzo, J. Sensory Studies, 23 (2008), pg 354-376.

[062] Alternatively, in some aspects, olfactive notes may be classified as contrasting according to the methods disclosed in Zarzo, J. Chemical Senses (2015), pg 305-313.

[063] Alternatively, in some aspects, olfactive notes may be classified as contrasting according to the methods disclosed in Zarzo, J. Chemical Senses 31 (2006), pg 713-724.

[064] Alternatively, in some aspects, olfactive notes may be classified as contrasting according to the methods disclosed in Abe et al, Analytica Chimica 239 (1990), pg 73-85.

[065] Alternatively, in some aspects, olfactive notes may be classified as contrasting according to the methods disclosed in Chastrette et al, Chemical Senses 16 (1991), pg 81-93.

Compositions According to Some Aspects Presented Herein:

[066] Subjects’ perceptions of perfume compositions may decline over time. The compositions described herein address the subjects’ decline in perception of fragrance in several ways.

[067] *Compositions Comprising Contrasting Perfuming Accords:* It has been now surprisingly found that combining contrasting fragrance accords into a single composition may accentuate the differences in the pairing. In particular, the inventors found that the perceived intensity of the resulting mixture of such dissimilar fragrance accords was significantly higher than predicted, based on the intensities of the individual accords; and, that attention to the odor of a mixture of contrasting accords was enhanced and prolonged versus the accords alone.

[068] Accordingly, some aspects described herein provide a perfume composition comprising perfuming compounds forming a first perfume accord dominated by a first olfactive note; and perfuming compounds forming a second perfume accord dominated by a second olfactive note, wherein the first and second olfactive notes are contrasting notes. Additionally, some aspects provide a method to improve perfume intensity perceived by a subject over time, which method comprises, exposing said subject to a composition as defined herein.

[069] A perfume accord is meant to designate a mixture of perfuming ingredients. As used herein, the term "perfuming ingredient" it is meant a compound, which is used for the primary purpose of conferring or modulating an odour. In other words such an ingredient, to be considered as being a perfuming one, must be recognized by a person skilled in the art as being able to at least impart or modify in a positive or pleasant way the odor of a composition, and not just as having an odor. For the purpose of the present disclosure, perfume accord also includes combination of perfuming ingredients with substances which together improve, enhance or modify the delivery of the perfuming ingredients, such as perfume precursors, emulsions or dispersions, as well as combinations which impart an additional benefit beyond that of modifying or imparting an odor, such as long-lasting, blooming, malodour counteraction, antimicrobial effect, microbial stability, insect control.

[070] The nature and type of the perfuming ingredients do not warrant a more detailed description here, which in any case would not be exhaustive, the skilled person being able to select them on the basis of its general knowledge and according to intended use or application and the desired organoleptic effect. In general terms, these perfuming

ingredients belong to chemical classes as varied as alcohols, aldehydes, ketones, esters, ethers, acetates, nitriles, terpenoids, nitrogenous or sulphurous heterocyclic compounds and essential oils, and said perfuming co-ingredients can be of natural or synthetic origin. Many of these co-ingredients are in any case listed in reference texts such as the book by

5 S. Arctander, *Perfume and Flavor Chemicals*, 1969, Montclair, New Jersey, USA, or its more recent versions, or in other works of a similar nature, as well as in the abundant patent literature in the field of perfumery. It is also understood that said ingredients may also be compounds known to release in a controlled manner various types of perfuming compounds.

10 **[071]** The perfuming ingredients may be dissolved in a solvent of current use in the perfume industry. In some embodiments, the solvent is not an alcohol. Examples of such solvents are diethyl phthalate, isopropyl myristate, Abalyn® (rosin resins, available from Eastman), benzyl benzoate, ethyl citrate, limonene or other terpenes, or isoparaffins. In some aspects, the solvent is very hydrophobic and highly sterically hindered, like for

15 example Abalyn® or benzyl benzoate.

[072] In some aspects, the perfume comprises less than 30% of solvent. In some aspects, the perfume comprises less than 20%, alternatively less than 10% of solvent, all these percentages being defined by weight relative to the total weight of the perfume. In some aspects, the perfume is essentially free of solvent.

20 **[073]** In some aspects, the first perfume comprising perfuming compounds forming a first perfume accord dominated by a first olfactive note, when dispersed into a surrounding space has a given profile. In some aspects, the given profile does not change over time. Similarly, in some aspects the second perfume comprising perfuming compounds forming a second perfume accord dominated by a second olfactive note has a

25 given profile. In some aspects, the given profile does not change over time.

[074] Referring to Examples 1 to 3, the compositions according to the present disclosure advantageously proved to increase the perceived intensity of a perfume, when comparing with the perceived intensity of the individual accords as shown in the examples below. Contrary to what would be expected, namely an intensity for the composition comprising

the two accords between the respective intensities of the accord evaluated individually, the composition according to the invention shows increased intensity. Therefore another object of the invention consists of a method to improve perfume intensity perceived by a subject over time, which method comprises exposing said subject to a first perfume
5 accord dominated by a first olfactive note followed by exposure to a second perfume accord dominated by a second olfactive note wherein the first and second olfactive note are contrasting notes.

[075] Moreover, the compositions described herein have also shown to impact noticeability of a perfume when the consumer is exposed to the contrasting accords
10 sequentially. Therefore, a method to improve noticeability of a perfume which comprises dispensing sequentially at least partly in the air, a first perfume comprising perfuming compounds forming a first perfume accord dominated by a first olfactive note followed by a second perfume comprising perfuming compounds forming a second perfume accord dominated by a second olfactive note, wherein the first olfactive and second olfactive
15 notes are contrasting notes, is also an object of the present invention.

[076] In some aspects, the first perfume accord is dominated by an olfactive note selected from the group consisting of floral, water, green, fruity and citrus and the second perfume accord is dominated by an olfactive note selected from the group consisting of oriental, woody and meringue. In an alternate aspect, the first perfume accord is
20 dominated by an olfactive note consisting of lemon and the second perfume accord is dominated by a second olfactive note consisting of an oriental note. In an alternate aspect, the first perfume accord is dominated by an olfactive note consisting of lemon and the second perfume accord is dominated by an olfactive note consisting of a meringue note.

[077] In some aspects, the perfume composition comprises a third contrasting accord.
25 This accord, if used, must contrast with the other two accords in the composition. There must be no perceptual cross-adaptation (reciprocal or non-reciprocal) between either pair of accords in the composition; at least one pair of accords must show either reciprocal or non- reciprocal perceptual enhancement; and, the three accords must be used in the
30 fragrance composition at approximately the same intensity as one another.

[078] In some aspects, the perfume composition further comprises additional ingredients.

[079] *Compositions Comprising Contrasting Perfuming Accords Having Different Temporal Release Profiles:* Without intending to be limited to any particular theory, in
5 some aspects, the likelihood of a subject's decreased perception of a fragrance (also referred to herein as habituation) may be greater if the olfactive profile (i.e. the olfactive notes of the perfume composition) does not change, or changes only slightly with time.

[080] By way of illustration, Example 4 describes a perfume composition having an olfactive profile that was consistently reported to be floral, musk and woody for up to 6
10 hours following application to a surface. It was found that subjects adapted to the perfume composition, in that the perception of the perfume composition decline over time.

[081] In contrast, again referring to Example 4, less adaptation was observed to perfume compositions having an olfactive profile that changes over time.

15 [082] Accordingly, some aspects provide a perfume composition comprising at least two perfuming accords,

wherein a first perfume accord of the at least two perfuming accords comprises perfuming compounds dominated by a first olfactive note,
wherein a second perfume accord of the at least two perfuming accords
20 comprises perfuming compounds dominated by a second olfactive note,
wherein the first and second olfactive notes are contrasting notes,
wherein the first perfume accord is present in the perfume composition in an amount sufficient for the first olfactive note to be perceived by a subject at a first time,
25 wherein the second perfume accord is present in the perfume composition in an amount sufficient for the second olfactive note to be perceived by a subject at a second time, and

wherein the perception of the first olfactive note and the second olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

[083] In some aspects, the second time is after the first time.

- 5 [084] In some aspects, the perfume composition further comprises a third perfume accord comprising perfuming compounds dominated by a third olfactive note, wherein the third perfume accord is present in the perfume composition in an amount sufficient for the third olfactive note to be perceived by a subject at a third time.

[085] In some aspects, the third time is after the second time.

- 10 [086] In some embodiments, the perfume composition is the perfume composition described in Table 2.

[087] In some embodiments, the perfume composition is the perfume composition described in Table 3.

- 15 [088] In some aspects, the perfume composition further comprises additional ingredients.

[089] In some aspects, the perfume composition is a pre-formulated perfume composition, and the first perfume accord is added to the pre-formulated perfume composition in an amount sufficient for the first olfactive note to be perceived by the subject at the first time.

- 20 [090] In some aspects, the perfume composition is a pre-formulated perfume composition, and the second perfume accord is added to the pre-formulated perfume composition in an amount sufficient for the second olfactive note to be perceived by the subject at the second time.

- 25 [091] In some aspects, the perfume composition is a pre-formulated perfume composition, and the third perfume accord is added to the pre-formulated perfume

composition in an amount sufficient for the third olfactive note to be perceived by the subject at the third time.

[092] In some aspects, the third olfactive note and the second olfactive note are contrasting notes.

5 [093] In some aspects, the third olfactive note and the first olfactive note are contrasting notes.

[094] In some aspects, there are no perceptual cross-adaptation (reciprocal or non-reciprocal) between either pair of accords in the composition (either between the first and second, or the second and third)

10 [095] In some embodiments, at least one pair of accords show either reciprocal or non-reciprocal perceptual enhancement.

[096] In some aspects, the first olfactive note is selected from the group consisting of floral, water, green, fruity and citrus olfactive notes.

15 [097] In some aspects, the second olfactive note is selected from the group consisting of floral, fruity, citrus, sweet, oriental, woody and meringue olfactive notes.

[098] In some aspects, the third olfactive note is selected from the group consisting of floral, fruity, citrus, sweet, oriental, woody and meringue olfactive notes.

20 [099] In some aspects, the the first perfume accord is dominated by an olfactive note consisting of lemon and the second perfume accord is dominated by a second olfactive note consisting of oriental.

[0100] In some aspects, the first perfume accord is dominated by an olfactive note consisting of lemon and the second perfume accord is dominated by an olfactive note consisting of meringue.

[0101] In some aspects, the first perfume accord is dominated by an olfactive note consisting of citrus, floral, fruity and green, and the second perfume accord is dominated by an olfactive note consisting of a floral, fruity and sweet.

5 [0102] In some aspects, the first perfume accord is dominated by an olfactive note consisting of citrus and green, the second perfume accord is dominated by an olfactive note consisting of a floral, and fruity, and the third perfume accord is dominated by an olfactive note consisting of floral, fruity, citrus and sweet.

10 [0103] In some aspects, the sufficient amount of the first perfume accord is from 30% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the first perfume accord is from 40% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the first perfume accord is from 50% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the first perfume accord is from 60% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the first perfume accord is from 30% to 60% by weight of the perfume composition. In some aspects, the sufficient amount of the first perfume accord is from 30% to 50% by weight of the perfume composition. In some aspects, the sufficient amount of the first perfume accord is from 30% to 40% by weight of the perfume composition.

20 [0104] In some aspects, the sufficient amount of the first perfume accord is 30%, or 40%, or 50%, or 60%, or 70% by weight of the perfume composition.

25 [0105] In some aspects, the sufficient amount of the second perfume accord is from 30% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the second perfume accord is from 40% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the second perfume accord is from 50% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the second perfume accord is from 60% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the second perfume accord is from 30% to 60% by weight of the perfume composition. In some aspects, the sufficient amount of the second perfume accord is from 30% to 50% by weight of the perfume composition. In some

aspects, the sufficient amount of the second perfume accord is from 30% to 40% by weight of the perfume composition.

[0106] In some aspects, the sufficient amount of the second perfume accord is 30%, or 40%, or 50%, or 60%, or 70% by weight of the perfume composition.

- 5 [0107] In some aspects, the first perfume accord and the second perfume accord are present in the perfume composition in a weight ratio ranging from 3:1 to 1:3. In some aspects, the first perfume accord and the second perfume accord are present in the perfume composition at a weight ratio of 1:1.

[0108] In some aspects, the sufficient amount of the third perfume accord is from 30% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the third perfume accord is from 40% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the third perfume accord is from 50% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the third perfume accord is from 60% to 70% by weight of the perfume composition. In some aspects, the sufficient amount of the third perfume accord is from 30% to 60% by weight of the perfume composition. In some aspects, the sufficient amount of the third perfume accord is from 30% to 50% by weight of the perfume composition. In some aspects, the sufficient amount of the third perfume accord is from 30% to 40% by weight of the perfume composition.

- 15
20 [0109] In some aspects, the sufficient amount of the third perfume accord is 30%, or 40%, or 50%, or 60%, or 70% by weight of the perfume composition.

[0110] In some aspects, the first perfume accord the second perfume accord, and the third perfume accord are present in the perfume composition at a weight ratio of 1:1:1.

- [0111] Without intending to be limited to any particular theory, the perception of a particular perfume accord depends on a number of factors, such as, for example, the particular mixture of perfuming ingredients, the volatility of the perfuming ingredients, the odor detection threshold of the perfuming ingredients, the concentration of the perfuming ingredients that a subject is exposed to, and the like.

[0112] In some embodiments, the first, second, and third perfuming accords, when perceived, are perceived at the same intensity by the subject.

[0113] In some embodiments, the time at which a given perfume accord is perceived by the user may be controlled by the relative volatility of a given perfume accord compared to the others in the perfume composition. For example, in some embodiments, the first perfuming accord comprises perfuming ingredients that are more volatile than the perfuming ingredients comprising the second, or third perfume accords. Consequently, the first perfume accord is perceived by the subject at a first time that is before the time the second perfume accord is perceived. Similarly, in some embodiments, the second perfuming accord comprises perfuming ingredients that are more volatile than the perfuming ingredients comprising the third perfume accord. Consequently, the second perfume accord is perceived by the subject at a time second time that is before the time the third perfume accord is perceived. Similarly, the third perfuming accord comprises perfuming ingredients that are less volatile than the perfuming ingredients comprising the second perfume accord. Consequently, the third perfume accord is perceived by the subject at a time second time that is after the time the second perfume accord is perceived.

[0114] In some aspects, the first perfume accord comprises perfuming compounds having a volatility ranging from 70,000 to 100 $\mu\text{g/l}$ in air. In some aspects, perfuming compounds having a volatility ranging from 70,000 to 100 $\mu\text{g/l}$ in air are referred to as “top notes”.

[0115] In some aspects, the second perfume accord comprises perfuming compounds having a volatility ranging from 99 to 50 $\mu\text{g/l}$ in air. In some aspects, perfuming compounds having a volatility ranging from 99 to 50 $\mu\text{g/l}$ in air are referred to as “middle notes”.

[0116] In some aspects, the third perfume accord comprises perfuming compounds having a volatility ranging from 49 to 0.1 $\mu\text{g/l}$ in air. In some aspects, perfuming compounds having a volatility ranging from 49 to 0.1 $\mu\text{g/l}$ in air are referred to as “bottom notes”.

[0117] In some aspects, the first perfume accord comprises perfuming compounds having a vapor pressure greater than 0.1 mm Hg. In some aspects, perfuming compounds having a vapor pressure greater than 0.1 mm Hg are referred to as “top notes”.

5 [0118] In some aspects, the second perfume accord comprises perfuming compounds having a vapor pressure between 0.1 mm Hg and 0.001 mm Hg. In some aspects, perfuming compounds having a vapor pressure between 0.1 mm Hg and 0.001 mm Hg are referred to as “middle notes”.

10 [0119] In some aspects, the third perfume accord comprises perfuming compounds having a vapor pressure less than 0.001 mm Hg. In some aspects, perfuming compounds having a vapor pressure less than 0.001 mm Hg are referred to as “bottom notes”.

[0120] Tables 4 to 10 describe top, middle and bottom note perfuming compounds for watery, green, fruity, citrus, sweet , gourmand and woody notes respectively.

15 [0121] In some aspects, the perception of the second olfactive note after the first olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

[0122] In some aspects, the perception of the first olfactive note, the second olfactive note, and the third olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

20 [0123] In some aspects, the perception of the third olfactive note after the second olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

[0124] Accordingly, some aspects provide a method to reduce, prevent, or suppress a reduced perception of the perfume composition by a subject over time, comprising exposing the subject to a perfume composition according an aspect presented herein.

25 [0125] In some aspects, the first time is less than one hour after exposure of the subject to the perfuming composition. In some aspects, the first time is 60, or 55, or 50, or 45, or

40, or 35, or 30, or 25, or 20, or 15 minutes after exposure of the subject to the perfuming composition.

[0126] In some aspects, the second time is from one to six hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from one to five hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from one to four hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from one to three hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from one to two hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from two to six hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from three to six hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from four to six hours after exposure of the subject to the perfuming composition. In some aspects, the second time is from five to six hours after exposure of the subject to the perfuming composition. In some aspects, the second time is 1, or 1.5, or 2, or 2.5, or 3, or 3.5, or 4, or 4.5, or 5, or 5.5, or 6 six hours after exposure of the subject to the perfuming composition.

[0127] In some aspects, the second time is from one to four hours after exposure of the subject to the perfuming composition.

[0128] In some aspects, the third time is from four to six hours after exposure of the subject to the perfuming composition. In some aspects, the third time is from four to five hours after exposure of the subject to the perfuming composition. In some aspects, the third time is from five to six hours after exposure of the subject to the perfuming composition. In some aspects, the third time is 4, or 4.5, or 5, or 5.5, or 6 six hours after exposure of the subject to the perfuming composition.

Devices and Applications

[0129] In some aspects, the time at which a given perfume accord is perceived by the user may be controlled by dispensing the given perfume accord at a given time. For example,

the first perfume accord may be dispensed at the first time, the second perfume accord may be dispensed at the second time, and so on. In some embodiments, the subject does not perceive a given perfume accord until it is dispensed.

[0130] Accordingly, some aspect presented herein provide a method to reduce, prevent, or suppress a reduced perception of the perfume composition by a subject over time, comprising dispensing sequentially at least partly in the air, the first perfume accord dominated by a first olfactive note followed by the second perfume comprising perfuming compounds forming a second perfume accord dominated by a second olfactive note.

[0131] In some aspects, the sequential dispensing is performed using a device configured to sequentially emanate separate fragrances at timed intervals from each other. Devices suitable for this include the AIRWICK® SYMPHONIA device which is configured to receive two separate bottles of fragrance and sequentially direct heat toward each bottle to accelerate the evaporation of fragrance therefrom. In such a device the fragrances contained in each bottle can be different to facilitate a consumer being able to notice the sequential nature of the fragrance emanation.

[0132] U.S. Patent Application Publication No. 2013/0156408 A1 discloses an example of a device configured to sequentially emanate separate fragrances at timed intervals from each other.

[0133] U.S. Patent Application Publication No. 2013/0156408 A1 discloses an example of methods to sequentially emanate separate fragrances at timed intervals from each other.

[0134] U.S. Patent Application Publication No. 2015/0098860 A1 discloses an example of methods to sequentially emanate separate fragrances at timed intervals from each other.

[0135] In some aspects, the device comprises dispensing means for dispersing sequentially in the air volatile compositions and a composition as defined in any of the above-described aspects. In some aspects, the device is such that the first accord and the second accord are physically separated by separating means. According to one aspect, the device is an air-freshener. By sequentially diffusing contrasting accords, the intensity of the perfume can be improved over time.

[0136] In some aspects, the first time is 60, or 55, or 50, or 45, or 40, or 35, or 30, or 25, or 20, or 15 minutes.

[0137] In some aspects, the second time is 1, or 1.5, or 2, or 2.5, or 3, or 3.5, or 4, or 4.5, or 5, or 5.5, or 6 six hours.

5 [0138] In some aspects, the third time is 4, or 4.5, or 5, or 5.5, or 6 six hours.

[0139] The compositions of the present disclosure can be used for different applications. According to some aspects, the perfume composition according to the invention consists of an air freshener.

10 [0140] One aspect presented herein provides a manufactured product comprising the perfume composition according to an aspect presented herein. In one aspect, the manufactured product is selected from the group consisting of a perfume, eau de toilette, home care product and a personal care product.

[0141] The present invention is best illustrated but is not limited to the following examples.

15

EXAMPLES

Example 1: Sensory Evaluation of Perceived Perfume Intensity with Sequential Exposure to Contrasting Accords vs Non Contrasting Accords

20 [0142] For this example, 3 perfume accords were prepared: a lemon accord (A1); a lime accord (A2); and, an oriental accord (C1). The lemon accord and lime accords are non-contrasting accords, whereas the lemon and oriental accords are contrasting accords.

[0143] *Protocol:* Each accord was applied to a cellulose type air freshener and placed in an evaluation booth. A panel was then asked to rate the intensity of the odor in each booth. The test was repeated later the same day. The sample preparation and set-up was identical to the first test but there was one important difference: each assessor was asked
25 to wear a small device for 15 minutes prior to the evaluation. The device was a small plastic holder that could be clipped onto the assessors clothing, the holder contained a

cellulose pad that was impregnated with the lemon accord. In this way we were able to adapt the assessors to the lemon accord.

[0144] The results of the two tests are illustrated in Figure 2 and are markedly different. The perceived intensity of the lemon accord was significantly suppressed after adaptation to the lemon accord (self-adaptation). The perceived intensity of the lime accord (non-contrasting accord if compared to lemon) was also strongly suppressed after adaptation to the lemon accord (significant cross-adaptation*). On the other hand, the perceived intensity of the oriental accord (contrasting accord compare to lemon) was increased/enhanced after adaptation to the lemon accord. The lemon accord and oriental accord would meet the definition of “contrasting fragrance accords” – there is no cross-adaptation and there is a perceptual enhancement.

Example 2: Sensory Evaluation of Perceived Perfume Intensity with Sequential Exposure to Contrasting Accords vs Non Contrasting Accords

[0145] The protocol described in Example 1 was repeated using a larger panel and different accords. Accords used were a berry accord (A1) and a coconut accord (C1). There was also used an accord that would be “complementary” to the berry accord, that is one that is noticeably different (more different than lime from lemon) but which shares some olfactive quality – there was used an apple accord for this purpose (B1). Results are illustrated in Figure 3. The berry accord showed a strong self-adapting effect, cross-adaptation with the apple accord and no cross-adaptation with the coconut accord. Furthermore, there was an enhancement of the coconut accord after adaptation to the berry.

Example 3: Sensory Evaluation of Perceived Perfume Intensity of a Perfume Composition According to Some Aspects Presented Herein

[0146] A sensory test was conducted with 24 panelists. Two contrasting fragrance accords were used, namely “LEMON” (A1) and “MERINGUE” (C1). Three identical odor evaluation booths were set up as follows: one booth contained two 5cm x 5cm cellulose pads, each impregnated with 2g of the “LEMON” accord; a second booth

contained two 5cm x 5cm cellulose pads, each impregnated with 2g of the “MERINGUE” accord; a third booth contained one 5cm x 5cm cellulose pad impregnated with 2g of the “LEMON” accord and one 5cm x 5cm cellulose pad impregnated with the “MERINGUE” accord. Panelists were asked to rate the intensity of the odors in each booth. Normally, it could have been expected that the intensity of the mixture “LEMON + MERINGUE” would fall between the intensity of the LEMON only and MERINGUE only; however, surprisingly the intensity of the mixture was significantly stronger than the intensity of either single accord. Results are illustrated in Figure 3.

[0147] Also, it was mentioned by panellist that the citrus aspects were more noticeable when paired with the “meringue” than when smelled alone. This view was echoed by several of the professional evaluators that smelled the samples.

Example 4: Sensory Evaluation of Perceived Perfume Intensity of a Fine Fragrance Perfume Composition According to Some Aspects Presented Herein

[0148] A sensory test was conducted with 22 to 24 panelists in each session, comparing the three fine fragrances shown in three different sessions, set forth in Tables 1-3 below:

Table 1: Test Attention Modulation Fragrance “HAF A”:

Ingredient Name	Parts
Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-, [3aR-(3a.alpha.,5a.beta., 9a.alpha.,9b.beta.)] @ 10% DIPG	15
Benzyl Acetate	5
Ethoxymethyl-cyclododecyl ether	10
3-(4-tert-butylphenyl)propanal	5
(Z)-3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one	1
3,7-dimethyl-2,6-octadienal @ 10% DIPG	3
3,7-dimethyloct-6-enyl acetate	10
1-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-1-one @ 10% DIPG	3
(E)-1-(2,6,6-trimethyl-1-cyclohexa-1,3-dienyl)but-2-en-1-one @ 10% DIPG	3
5-hexyloxolan-2-one	2
(6E)-3,7-dimethylnona-1,6-dien-3-ol	35

Ingredient Name	Parts
1,4-dioxacycloheptadecane-5,17-dione	50
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta(g)-2-benzopyran 70 MIP EXTRA	50
(Z)-3,7-Dimethyl-2,6-octadien-1-ol	7
GRAPEFRUIT OIL	10
methyl 3-oxo-2-pentylcyclopentaneacetate	100
3-(1,3-benzodioxol-5-yl)-2-methylpropanal	20
HYDROXYCITRONELLAL SYNTH P FAB	25
INDOLE @ 1% DIPG	5
7-acetyl, 1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl naphthalene	35
JASMIN PAYS FIR ABSOLUE @ 10% DIPG	3
6-[(E)-pent-2-enyl]oxan-2-one @10% DIPG	14
LEMON OIL SFUMA PRIMOFIORE	10
3-(4-tert-butylphenyl)butanal	40
MANDARIN INCOL DM	15
METHYL ANTHRANILATE DIST @1% DIPG	4
methyl 2,4-dihydroxy-3,6-dimethylbenzoate @10 DIPG	3
TAGETES OIL @10% DIPG	2
5-heptyloxolan-2-one	5
(E)-4-methyldec-3-en-5-ol	6
2,4-dimethylcyclohex-3-ene-1-carbaldehyde @10% DIPG	4
	500

Table 2: Test Attention Modulation Fragrance “HAF A2”:

Ingredient Name	Parts
Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-, [3aR-(3a.alpha.,5a.beta.,9a.alpha.,9b.beta.)] @10% DIPG	15
Benzyl Acetate	5
Ethoxymethyl-cyclododecyl ether	10
3-(4-tert-butylphenyl)propanal	5
(Z)-3-Methyl-2-(2-pentenyl)-2-cyclopenten-1-one	1
3,7-dimethyl-2,6-octadienal @ 10% DIPG	3
3,7-dimethyloct-6-enyl acetate	10

Ingredient Name	Parts
1-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-1-one @ 10% DIPG	3
(E)-1-(2,6,6-trimethyl-1-cyclohexa-1,3-dienyl)but-2-en-1-one @10% DIPG	3
5-hexyloxolan-2-one	2
(6E)-3,7-dimethylnona-1,6-dien-3-ol	35
ETHYL PRANILE @ 10% DIPG	5
1,4-dioxacycloheptadecane-5,17-dione	50
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta(g)-2-benzopyran 70 MIP EXTRA	50
(Z)-3,7-Dimethyl-2,6-octadien-1-ol	7
GRAPEFRUIT OIL	10
methyl 3-oxo-2-pentylcyclopentaneacetate	100
3-(1,3-benzodioxol-5-yl)-2-methylpropanal	20
HYDROXYCITRONELLAL SYNTH P FAB	38
INDOLE @ 1% DIPG	5
7-acetyl, 1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl naphthalene	35
JASMIN PAYS FIR ABSOLUE @ 10% DIPG	3
6-[(E)-pent-2-enyl]oxan-2-one @10% DIPG	14
LEMON OIL SFUMA PRIMOFIORE	10
3-(4-tert-butylphenyl)butanal	40
MANDARIN INCOL DM	15
METHYL ANTHRANILATE DIST @1% DIPG	4
methyl 2,4-dihydroxy-3,6-dimethylbenzoate @10 DIPG	3
TAGETES OIL @10% DIPG	2
5-heptyloxolan-2-one	5
(E)-4-methyldec-3-en-5-ol	6
VANILLIN NAT NFB LC @10% DIPG	2
2,4-dimethylcyclohex-3-ene-1-carbaldehyde @10% DIPG	4
	520

Table 3: Reference Fragrance “HAF 1”:

Ingredient Name	Parts
Ambrettolide	5

Ingredient Name	Parts
3a,6,6,9a-tetramethyl-2,4,5,5a,7,8,9,9b-octahydro-1H-benzo[e][1]benzofuran	10
Benzyl Salicylate	40
Ethoxymethyl-cyclododecyl ether	20
Dartanol	15
1,4-dioxacycloheptadecane-5,17-dione	77
Firsantol	10
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta(g)-2-benzopyran 70 MIP EXTRA	120
methyl 3-oxo-2-pentylcyclopentaneacetate	80
Hydroxycitronellal Synth P FAB	30
Indole @ 10% DIPG	2
7-acetyl, 1,2,3,4,5,6,7,8-octahydro-1,1,6,7-tetramethyl naphthalene	180
Jasmin Sambac Fir absolue @ 10% DIPG	5
5-Ethyl-5-phenylhydantoin	10
Pipol Salicylate	10
(E)-3,3-dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol	25
3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	30
1-(2,6,10-TRIMETHYL-1(2),5,9-CYCLODODECATRIEN-1-YL)-1-ETHANONE + 1-(6,10-DIMETHYL-2-METHYLENE-5,9-..)-1-E...	30
5-heptyloxolan-2-one	1
	700

[0149] The fine fragrances were applied to glass slides, which were maintained at 32 degrees Celsius. The olfactive profile and perceived global intensity of the fragrances were evaluated at 15 min, 1 hour, 2 hours, 4 hours, and 6 hours after application to the glass surfaces, by randomly presenting the slides.

[0150] The panelists were asked to describe the olfactive profile by selecting the three most dominant descriptors (out of 7 presented: Green, Citrus, Fruity, Floral, Woody, Musk, Sweet/Gourmand). Panelists were also able to mention when they perceived nothing (i.e., were not able to describe the olfactive profile).

[0151] The panelists were asked to rate the perceived global intensity of the fragrances at 15 min, 1 hour, 2 hours, 4 hours, and 6 hours after application to the glass surfaces, by randomly presenting the slides.

[0152] Adaptation was determined by applying the fragrance to a cellulose pad, and presenting the fragrance to the panelist for two minutes before the glass slides were presented again to the panelists.

[0153] *The Reference Fine Fragrance:* Referring to Figure 5, the olfactive profile did not appear to change over time, wherein the panelists reported a Floral, Musk, and Woody profile at all time points. The horizontal line depicts the limit of a random selection of the terms. 46% of the panelists reported no change in olfactive profile, whilst 46% of the panelists reported 2 to 4 changes in olfactive profile, and none of the panelists reported a maximum of 4 changes in olfactive profile.

[0154] Referring to Figure 6, the perception of the reference fine fragrance declined significantly following a two minute exposure to the fragrance. Before exposure, 65% of the selected terms were above chance, compared to 15% after exposure.

[0155] *The Attention Modulation Fragrance "HAF A":* Referring to Figure 7, the olfactive profile changed or switched, wherein the panelists reported a Citrus/ Green profile at 15 min, a Floral/ Fruity profile at 1 to 4 hours, and a Floral/ Fruity/ Citrus/ Sweet profile at 6 hours. The horizontal line depicts the limit of a random selection of the terms. Only 18% of the panelists reported no change in olfactive profile, whilst 73% of the panelists reported 2 to 4 changes in olfactive profile, and 23% of the panelists reported a maximum of 4 changes in olfactive profile.

[0156] Referring to Figure 8, the perception of the attention modulation fine fragrance did not decline as much, compared to the decline observed with the reference fragrance following a two minute exposure to the fragrance. After exposure, 38% of the selected terms were above chance compared to only 15% for the reference fragrance.

[0157] *The Attention Modulation Fragrance "HAF A2":* Referring to Figure 9, the olfactive profile changed or switched, wherein the panelists reported a Citrus/ Floral/

Fruity/ Green profile at 15 min, and a Floral/ Fruity/ Sweet profile at 1 to 6 hours. The horizontal line depicts the limit of a random selection of the terms. Only 9% of the panelists reported no change in olfactive profile, whilst 82% of the panelists reported 2 to 4 changes in olfactive profile, and 34% of the panelists reported a maximum of 4 changes in olfactive profile.

[0158] Referring to Figure 10, the perception of the attention modulation fine fragrance did not decline as much, compared to the decline observed with the reference fragrance following a two minute exposure to the fragrance. After exposure, 51% of the selected terms were above chance compared to only 15% for the reference fragrance.

[0159] Figure 11 shows the effect of adaptation on the percent intensity decrease of perception following adaptation of the reference and two test fragrances. A greater decrease in intensity following adaptation was observed in the reference fragrance, particularly at 2 and 4 hours.

[0160] Taken together, these data suggest that the olfactive profiles of perfume compositions according to some aspects presented herein change more over time, compared to a reference composition. Additionally, less adaptation is observed by subjects for perfume compositions according to some aspects presented herein change more over time, compared to a reference composition. Finally, the perfume compositions according to some aspects presented herein are more long lasting than reference compositions, as evidenced by a lower decrease in perceived intensity after a 2 minute adaptation.

Table 4: Perfuming Compounds Having a Watery Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(+)-2,6-DIMETHYL-5-HEPTENAL	140	1889.68	3.15	2.11E-04	8.96E+06
TOP	(2E,6Z)-2,6-NONADIENAL"	138	632.43	2.56	1.46E-04	4.34E+06

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(2E,6Z)-2,6-NONADIENAL"	138	632.43	2.56	1.46E-04	4.34E+06
TOP	METHYL 2-OCTYNOATE"	154	472.01	2.90	8.31E-04	5.68E+05
TOP	DECANAL"	156	466.56	3.99	1.92E-03	2.43E+05
TOP	(+)-2-methyldecanal"	170	297.74	3.73	9.00E-04	3.31E+05
TOP	undecanal	170	178.29	4.56	1.65E-03	1.08E+05
TOP	DODECANAL	184	144.79	4.94	9.90E-04	1.46E+05
TOP	10-undecenal	168	136.73	3.93	3.15E-03	4.34E+04
TOP	10-undecenal (A) + (9E)-9-undecenal (B) + (9Z)-9-undecenal (C)	168	131.95	4.26	3.77E-05	3.50E+06
TOP	8-ISOPROPYL-6-METHYL-BICYCLO[2.2.2]OCT-5-ENE-2-CARBALDEHYDE	192	131.02	3.81	7.11E-05	1.84E+06
TOP	(2Z)-3,7-dimethyl-2,6-octadien-1-yl acetate	196	123.21	3.81	6.02E-02	2.05E+03
middle	(2E,6Z)-2,6-NONADIEN-1-OL	140	98.76	2.68	3.22E-06	3.07E+07
middle	METHYL 2-NONYNOATE	168	91.76	3.51	1.60E-03	5.74E+04
middle	7-methyl-2H-1,5-benzodioxepin-3(4H)-one	142	89.26	3.40	5.05E-04	1.77E+05
middle	(+)-TETRAHYDRO-2-ISOBUTYL-4-METHYL-4(2H)-PYRANOL	172	79.79	2.22	1.35E-02	5.91E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
middle	(+)-2-methylundecanal	184	75.55	5.01	7.24E-05	1.04E+06
middle	(2R)-2-methyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-pentenal (A) + (2S)-2-methyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-pentenal (B)	206	63.49	4.25	2.22E-03	2.86E+04
middle	7-methyl-2H-1,5-benzodioxepin-3(4H)-one	178	56.74	1.61	3.20E-06	1.77E+07
middle	7-ISOPROPYL-2H,4H-1,5-BENZODIOXEPIN-3-ONE	178	56.74	1.61	3.20E-06	1.77E+07
middle	DODECANENITRILE	178	56.74	1.61	3.20E-06	1.77E+07
bottom	3-(4-ETHYLPHENYL)-2,2-DIMETHYLPROPANAL (A) + 3-(2-ETHYLPHENYL)-2,2-DIMETHYLPROPANAL (B)	190	48.69	3.56	5.33E-03	9.14E+03
bottom	7-methyl-2H-1,5-benzodioxepin-3(4H)-one	190	32.27	3.53	6.05E-05	5.33E+05
bottom	(+)-1-METHYL-4-(4-METHYL-3-PENTENYL)-3-CYCLOHEXENE-1-CARBALDEHYDE	206	26.54	5.14	2.72E-02	9.76E+02

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
bottom	(+)-3-(4-isopropylphenyl)-2-methylpropanal	190	24.85	3.59	3.00E-03	8.28E+03
bottom	(+)-3-(4-methyl-3-penten-1-yl)-3-cyclohexene-1-carbaldehyde (A) + (+)-4-(4-methyl-3-penten-1-yl)-3-cyclohexene-1-carbaldehyde (B)	192	21.54	4.11	3.68E-03	5.85E+03
bottom	(+)-3-(4-methoxyphenyl)-2-methylpropanal	178	18.99	2.80	9.79E-03	1.94E+03
bottom	(+)-2,6,10-TRIMETHYL-9-UNDECENAL	210	18.23	5.20	1.59E-02	1.15E+03
bottom	1,5,9-TRIMETHYL-4,8-DECADIENYL ACETATE	238	14.74	5.28	3.28E-04	4.49E+04
bottom	(+)-3-(3-ISOPROPYL-1-PHENYL)BUTANAL	194	14.74	2.01	7.71E-04	1.91E+04
bottom	3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal (A) + 3-(1,1-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal (B)	206	13.73	2.58	1.32E-05	1.04E+06

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
bottom	3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal (A) + 3-(1,1-dimethyl-2,3-dihydro-1H-inden-4-yl)propanal (B) + 3-(1,1-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal (C)	181	13.68	4.63	4.00E-03	3.42E+03
bottom	(+)-2-methyl-3-[4-(2-methyl-2-propanyl)phenyl]propanal	204	12.86	3.90	2.39E-04	5.38E+04
bottom	(+)-7-hydroxy-3,7-dimethyloctanal	172	12.81	2.00	6.98E-03	1.84E+03
bottom	CYCLOSIA BASE (POLYMER) (MAIN CPD = 7-HYDROXY-3,7-DIMETHYLOCTANAL)	172	10.34	2.00	6.98E-03	1.48E+03
bottom	(Z)-6-NONEN-1-OL	202	6.91	3.44	6.10E-04	1.13E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
bottom	(1S,4S,9S,10R,13R)-5,5,9,13-tetramethyl-14,16-dioxatetracyclo[1.1.2.1.0~1,10~.0~4,9~]hexadecane (A) + (1R,4S,9S,10R,13S)-5,5,9,13-tetramethyl-14,16-dioxatetracyclo[1.1.2.1.0~1,10~.0~4,9~]hexadecane (B)	278	6.77	4.59	4.36E-04	1.55E+04
bottom	8(9)-METHOXY-TRICYCLO[5.2.1.0(2,6)]DECANE-3(4)-CARBALDEHYDE	193	5.87	5.00	4.02E-05	1.46E+05
bottom	(+)-2,5-DIMETHYL-2-INDANMETHANOL	176	4.86	3.12	1.28E-04	3.79E+04
bottom	7-PROPYL-2H,4H-1,5-BENZODIOXEPIN-3-ONE	206	4.85	2.79	6.43E-05	7.54E+04
bottom	7-(2-methyl-2-propanyl)-2H-1,5-benzodioxepin-3(4H)-one	220	4.37	2.97	1.53E-04	2.85E+04
bottom	(+)-3-(1,3-BENZODIOXOL-5-YL)-2-METHYLPROPANAL	192	3.57	1.28	2.23E-04	1.60E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
bottom	METHYL 2,4-DIHYDROXY-3,6-DIMETHYLBENZOATE	196	1.52	2.30	4.89E-06	3.11E+05
bottom	(+)-3-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carbaldehyde (A) + (-)-4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carbaldehyde (B)	210	0.70	2.19	8.81E-05	7.92E+03

Table 5: Perfuming Compounds Having a Green Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	ETHYL BUTANOATE	116	142519.74	2.03	3.68E-04	3.87E+08
Top	(+)-ethyl 2-methylbutanoate	130	83769.16	2.58	1.26E-04	6.67E+08
Top	hexanal	100	68294.85	2.00	1.76E-03	3.88E+07
Top	3-METHYLBUTYL ACETATE (A) + (+)-2-METHYLBUTYL ACETATE (B)	130	51307.81	2.65	5.92E-02	8.67E+05
Top	(+)-ETHYL 2-METHYLPENTANOATE	144	35090.18	3.05	3.84E-05	9.14E+08
Top	(-)-(1S)-2,6,6-TRIMETHYL-BICYCLO[3.1.1]HEPT-2-ENE	136	33722.60	5.43	1.02E-01	3.31E+05
Top	beta-PINENE 89% (A) + alpha-PINENE 11% (B)	136	33722.60	5.43	1.02E-01	3.31E+05
Top	(2E)-2-HEXENAL	98	33708.26	1.62	2.53E-03	1.33E+07
Top	(+)-3-HYDROXY-2-BUTANONE	88	33382.87	-1.03	1.46E-02	2.28E+06
Top	3-methyl-2-buten-1-yl acetate	128	27705.98	2.19	5.58E-02	4.97E+05
Top	METHYL HEXANOATE	130	23345.90	2.65	8.43E-02	2.77E+05
Top	(+)-2-ethenyl-2,6,6-trimethyltetrahydro-2H-pyran	154	23116.66	3.59	1.64E-01	1.41E+05
Top	HEPTANAL	114	22184.00	2.15	2.03E-03	1.09E+07
Top	1-BUTANOL	74	17700.00	0.88	8.70E-02	2.03E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	1,1-DIETHOXY-3,7-DIMETHYL-2,6-OCTADIENE	226	16590.69	4.59	3.57E-03	4.65E+06
Top	(+)-3,5,5-TRIMETHYLHEXANAL	142	12045.92	3.02	9.37E-03	1.29E+06
Top	(Z)-3-HEXENYL FORMATE	128	9873.53	2.17	2.11E-03	4.68E+06
Top	ETHYL HEXANOATE	145	9675.10	3.12	9.11E-04	1.06E+07
Top	BENZALDEHYDE	106	8207.00	1.33	4.26E-02	1.93E+05
Top	(1R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]oct-3-ene (A) + (1R,4R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]octane (B)	168	6351.47	4.48	7.99E-05	7.95E+07
Top	(E)-2-HEXENYL ACETATE	142	6062.68	2.59	2.08E-01	2.92E+04
Top	(Z)-3-HEXEN-1-OL	100	5986.62	1.65	1.13E-02	5.30E+05
Top	6-METHYL-5-HEPTEN-2-ONE	126	5775.94	2.05	1.06E-01	5.45E+04
Top	1-ISOBUTYL-3-METHYLBUTYL ACETATE	186	5265.61	4.19	1.62E+00	3.24E+03
Top	OCTANAL	128	4147.61	2.94	2.77E-04	1.50E+07
Top	(2Z)-3-methyl-2-hexen-1-yl acetate (A) + (2E)-3-methyl-2-hexen-1-yl acetate (B)	156	4131.05	3.11	2.73E-02	1.51E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(1RS,6RS)-3,6-dimethyl-3-cyclohexene-1-carbaldehyde (A) + (1RS,6RS)-4,6-dimethyl-3-cyclohexene-1-carbaldehyde (B) + (1RS,6SR)-4,6-dimethyl-3-cyclohexene-1-carbaldehyde (C)	138	3770.43	2.24	2.69E-04	1.40E+07
Top	(E)-2-HEXEN-1-OL	100	3752.17	1.73	1.29E-01	2.92E+04
Top	3,7-DIMETHYL-1,3,6-OCTATRIENE	136	3480.57	4.91	2.57E-02	1.35E+05
Top	(Z)-3-HEXENYL ACETATE	142	3398.34	2.62	1.00E-02	3.40E+05
Top	(+)-1-octen-3-ol	128	3030.11	2.33	1.77E-03	1.71E+06
Top	ETHYL 3-OXOBUTANOATE (A) <=> (2Z)-ETHYL 3-HYDROXY-2-BUTENOATE (B)	130	2885.67	0.35	5.83E-02	4.95E+04
Top	nonanal	142	2777.63	3.42	8.14E-03	3.41E+05
Top	DIBUTYL SULFIDE	146	2766.10	4.86	2.34E-02	1.18E+05
Top	(3Z)-1-[(2E)-2-buten-1-yloxy]-3-hexene (A) + (3Z)-1-[(2Z)-2-buten-1-yloxy]-3-hexene (B)	154	2673.47	3.77	2.05E-02	1.31E+05
Top	(+)-1-METHOXY-3-HEXANETHIOL	148	2534.77	3.06	1.92E-07	1.32E+10

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	TETRAHYDRO-4-METHYL-2-(2-METHYL-1-PROPENYL)-2H-PYRAN	154	2483.93	3.49	8.77E-04	2.83E+06
Top	(+)-TETRAHYDRO-4-METHYL-2-(2-METHYL-1-PROPENYL)-2H-PYRAN (A) + 3,6-DIHYDRO-4-METHYL-2-(2-METH-.(B)	154	2483.93	3.49	8.77E-04	2.83E+06
Top	(Z)-6-NONENAL	140	2431.73	2.88	2.91E-05	8.36E+07
Top	HEXYL ACETATE	144	2316.04	3.09	1.32E-01	1.75E+04
Top	(+)-ETHYL 3-METHYL-2-OXOPENTANOATE	158	2276.17	1.96	5.06E-04	4.50E+06
Top	1-hexanol	102	2070.00	2.20	1.17E-01	1.77E+04
Top	(+)-METHYL 2,6,6-TRIMETHYL-2-CYCLOHEXENE-1-CARBOXYLATE	182	2010.91	3.16	1.06E-02	1.90E+05
Top	3,5,6-TRIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE (A) + 2,4,6-TRIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE (B)	152	1951.74	3.23	6.17E-03	3.16E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(2-ISOPROPOXYETHYL)BENZENE	164	1714.82	3.15	1.65E-03	1.04E+06
Top	(3Z)-3-hexen-1-yl butyrate	170	1674.15	3.59	7.85E-02	2.13E+04
Top	hexyl 2-methylpropanoate	172	1661.18	4.31	7.15E-01	2.32E+03
Top	PYRAZOBUTYLENE	166	1617.21	2.88	7.20E-07	2.25E+09
Top	(3Z)-hex-3-en-1-yl methyl carbonate	158	1506.33	2.97	4.58E-02	3.29E+04
Top	BENZYL FORMATE	136	1339.53	1.76	3.23E-01	4.15E+03
Top	(3E,5Z)-1,3,5-UNDECATRIENE	150	1247.28	5.68	3.76E-05	3.32E+07
Top	(2-METHOXYETHYL)BENZENE	136	1239.07	2.33	6.32E-04	1.96E+06
Top	ALLYL HEPTANOATE	170	1235.24	4.16	1.75E-02	7.06E+04
Top	(+)-1-(3,3-dimethylcyclohexyl)ethanone (A) + (+)-2,6,6-trimethylcycloheptanone (B)	154	1214.93	2.99	1.44E-02	8.44E+04
Top	(2RS,4SR)-2-methyl-4-propyl-1,3-oxathiane (A) + (2RS,4RS)-2-methyl-4-propyl-1,3-oxathiane (B)	160	1113.06	3.11	1.47E-03	7.57E+05
Top	(Z)-3-HEXENYL ISOBUTYRATE	170	1073.97	3.57	4.54E-02	2.36E+04
Top	(+)-(R)-4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene	168	993.39	4.59	1.99E-01	5.00E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(3Z)-1,3-undecadien-5-yne (A) + (3E)-1,3-undecadien-5-yne (B)	148	990.87	5.11	3.32E-03	2.98E+05
Top	(+)-(Z)-3-HEXENYL 2-METHYLBUTANOATE	184	833.05	3.84	1.96E-02	4.24E+04
Top	ethyl octanoate	172	800.05	4.20	5.30E-03	1.51E+05
Top	2-METHYL-3-HEXANONE OXIME	129	687.75	2.08	4.81E-04	1.43E+06
Top	(2E,6Z)-2,6-NONADIENAL	138	632.43	2.56	1.46E-04	4.34E+06
Top	(Z)-4-DECENAL	154	629.54	1.11	3.78E-05	1.67E+07
Top	(+)-(3-methoxy-2-methylpropyl)benzene	164	587.76	3.57	1.51E-02	3.89E+04
Top	2-PHENYLETHYL FORMATE	150	567.67	1.90	8.34E-04	6.81E+05
Top	ETHYL 2-METHYL-1,3-DIOXOLANE-2-ACETATE	174	479.20	1.12	1.62E-03	2.95E+05
Top	METHYL 2-OCTYNOATE	154	472.01	2.90	8.31E-04	5.68E+05
Top	(2,2-DIMETHOXYETHYL)BENZENE	166	456.97	2.10	4.55E-02	1.00E+04
Top	2-METHYLPENTYL 2-METHYLPENTANOATE	200	450.33	5.13	2.41E-01	1.87E+03
Top	(+)-3,7-DIMETHYL-3-OCTANOL	158	421.15	3.78	3.45E-03	1.22E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-3-mercaptohexyl acetate	176	421.09	2.64	2.72E-06	1.55E+08
Top	3-(4,4-dimethyl-1-cyclohexen-1-yl)propanal	166	417.92	3.30	2.06E-03	2.03E+05
Top	(1RS,2RS)-2-(2-methyl-2-propanyl)cyclohexyl acetate (A) + (1RS,2SR)-2-(2-methyl-2-propanyl)cyclohexyl acetate (B)	198	402.03	4.40	2.12E-02	1.90E+04
Top	1,1-DIMETHOXY-2-PHENYLPROPANE	180	376.94	2.50	1.42E-02	2.65E+04
Top	(+)-1,5-DIMETHYL-1-VINYL-4-HEXENYL ACETATE	196	339.21	4.04	7.40E-02	4.58E+03
Top	(+)-1,5-DIMETHYL-1-VINYL-4-HEXENYL ACETATE (A) + 1-P-MENTHEN-8-YL ACETATE (B)	196	339.21	4.04	7.40E-02	4.58E+03
Top	(+)-PERHYDRO-4alpha,8Abeta-DIMETHYL-4A-NAPHTHALENOL	182	330.48	3.92	5.32E-06	6.21E+07

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-3,7-dimethyl-6-octen-1-yl formate (A) + (2E)-3,7-dimethyl-2,6-octadien-1-yl formate (B)	184	322.28	3.79	5.28E-04	6.10E+05
Top	(+)-ethyl 2-acetyl-4-methyl-4-pentenoate	184	295.22	2.15	3.64E-03	8.10E+04
Top	(+)-(4Z)-4-cycloocten-1-yl methyl carbonate	184	278.83	3.02	3.69E-04	7.56E+05
Top	methyl (2E)-2-nonenoate	170	264.84	4.05	5.84E-02	4.53E+03
Top	(+)-2,4-dimethyl-4-phenyltetrahydrofuran	176	263.73	3.02	5.04E-04	5.23E+05
Top	(+)-3,7-DIMETHYL-6-OCTENYL FORMATE	184	262.84	4.16	1.72E-03	1.53E+05
Top	ALLYL (3-METHYLBUTOXY)ACETATE (A) + (+)-ALLYL (2-METHYLBUTOXY)ACETATE (B)	186	261.90	2.79	9.89E-05	2.65E+06
Top	hexyl (2E)-2-methyl-2-butenolate	184	256.81	4.80	1.16E-02	2.22E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(2RS,5SR)-6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene (A) + (2RS,5RS)-6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene (B)	206	252.44	5.07	7.71E-03	3.27E+04
Top	(+)-3-PHENYLBUTANAL	148	227.83	2.34	3.89E-04	5.86E+05
Top	(3Z)-3-hexen-1-yl (3Z)-3-hexenoate	196	210.68	4.22	5.17E-02	4.08E+03
Top	(Z)-3,7-DIMETHYL-2,6-OCTADIENAL (A) + (E)-3,7-DIMETHYL-2,6-OCTADIENAL (B)	152	202.66	2.68	4.12E-03	4.92E+04
Top	HEXANOIC ACID	116	197.90	1.92	1.82E-02	1.09E+04
Top	2-METHOXY-3-(4-METHYLPENTYL)PYRAZINE	194	195.24	4.27	1.18E-07	1.65E+09
Top	2-METHOXY-4-PROPYL-1-CYCLOHEXANOL	172	189.74	2.60	2.85E-02	6.66E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-CIS-TETRAHYDRO-METHYL-4-METHYLENE-6-PHENYL-2H-PYRAN (A) + (+)-CIS-3,6-DIHYDRO-4,6-DIMETHYL-2-PHENYL-2H-PYRAN (B) + (+)-CIS-3,6-DIHYDRO-2,4-DIMETHYL-6-PHENYL-2H-PYRAN (C)	188	189.16	3.95	1.73E-05	1.09E+07
Top	4-PHENYL-2-BUTANONE	148	176.55	1.79	2.22E-04	7.95E+05
Top	(3Z)-3-hexen-1-yl (2E)-2-methyl-2-butenolate	182	168.78	3.96	9.92E-03	1.70E+04
Top	10-undecenal (A) + 9-undecenal (B)	168	167.56	4.20	3.56E-04	4.71E+05
Top	(1R,4R)-8-MERCAPTO-3-P-MENTHANONE	186	155.12	2.99	3.43E-05	4.52E+06
Top	(+)-2-phenyl-1-propanol	136	142.19	1.74	3.62E-02	3.93E+03
Top	(+)-(3S)-3-[(1R)-4-methyl-3-cyclohexen-1-yl]butanal (A) + (+)-(3R)-3-[(1R)-4-methyl-3-cyclohexen-1-yl]butanal	166	134.08	3.51	1.11E-03	1.21E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	8-ISOPROPYL-6-METHYL-BICYCLO[2.2.2]OCT-5-ENE-2-CARBALDEHYDE	192	131.02	3.81	7.11E-05	1.84E+06
Top	5-METHYL-3-HEPTANONE OXIME	143	128.04	2.45	8.80E-03	1.45E+04
Top	BENZYL PROPANOATE	164	113.60	2.35	2.81E-02	4.04E+03
Top	ETHYL TRICYCLO[5.2.1.0.(2,6)]DECANE-2-CARBOXYLATE	208	111.67	4.32	6.87E-05	1.63E+06
Top	(+)-(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	192	110.53	3.65	1.04E-04	1.06E+06
Middle	(1RS,2RS,7SR,8SR)-tricyclo[6.2.1.0~2,7~]undec-9-en-3-one (A) + (1RS,2SR,7RS,8SR)-tricyclo[6.2.1.0~2,7~]undec-9-en-3-one (B)	162	99.95	2.53	1.23E-02	8.13E+03
Middle	(2E,6Z)-2,6-NONADIEN-1-OL	140	98.76	2.68	3.22E-06	3.07E+07
Middle	4-METHOXYBENZALDEHYDE	135	98.47	1.56	1.81E-05	5.44E+06
Middle	4-METHOXYBENZALDEHYDE	136	98.47	1.56	1.81E-05	5.44E+06
Middle	METHYL 2-NONYNOATE	168	91.76	3.51	1.60E-03	5.74E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	(4-METHYLPHENOXY)ACETALDEHYDE	150	89.41	1.99	6.46E-05	1.38E+06
Middle	7-methyl-2H-1,5-benzodioxepin-3(4H)-one	142	89.26	3.40	5.05E-04	1.77E+05
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIENYL ACETATE (A) + 3,7-DIMETHYL-6-OCTENYL ACETATE (B)	196	85.23	3.99	3.57E-02	2.39E+03
Middle	GERANYL ACETATE (A) + NERYL ACETATE (B)	196	85.23	3.99	3.57E-02	2.39E+03
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIENYL ACETATE	196	79.23	3.99	3.57E-02	2.22E+03
Middle	3,7-DIMETHYL-2,6-NONADIENENITRILE (A) + 3,7-DIMETHYL-3,6-NONADIENENITRILE (B)	163	78.89	3.17	3.10E-04	2.55E+05
Middle	ALLYL 3-CYCLOHEXYLPROPANOATE	196	75.80	4.51	7.96E-03	9.53E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	(+)-4-methylene-2-phenyltetrahydro-2H-pyran (A) + (+)-4-methyl-6-phenyl-3,6-dihydro-2H-pyran (B) + (+)-4-methyl-2-phenyl-3,6-dihydro-2H-pyran (C)	174	70.50	3.33	6.64E-06	1.06E+07
Middle	(+)-(3E)-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	192	68.11	4.06	5.30E-04	1.29E+05
Middle	(+)-(E)-4-METHYL-3-DECEN-5-OL	170	64.15	3.63	6.78E-04	9.46E+04
Middle	6(8)-ISOPROPYLQUINOLINE	171	60.10	3.44	1.24E-04	4.84E+05
Middle	1-PHENYL-2-(1-PROPOXYETHOXY)ETHANE	208	59.63	3.58	1.52E-03	3.93E+04
Middle	(+)-1,3-DIMETHYL-3-PHENYLBUTYL ACETATE	220	50.65	3.02	1.06E-02	4.77E+03
Middle	1-(4-METHOXYPHENYL)-1-ETHANONE"	150	50.21	1.76	1.41E-04	3.57E+05
Bottom	(+)-(1S,4aR,8S,8aR)-2,2,6,8-tetramethyl-1,2,3,4,4a,5,8,8a-octahydro-1-naphthalenol	208	48.90	5.24	8.15E-04	6.00E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	1-(3,3-dimethyl-1-cyclohexen-1-yl)-4-penten-1-one (A) + 1-(5,5-dimethyl-1-cyclohexen-1-yl)-4-penten-1-one (B)	192	47.01	3.89	1.64E-06	2.87E+07
Bottom	ALLYL (CYCLOHEXYLOXY)ACETATE	198	47.01	2.62	4.66E-05	1.01E+06
Bottom	1-(5,5-dimethyl-1-cyclohexen-1-yl)-4-penten-1-one	192	38.43	3.89	1.64E-06	2.34E+07
Bottom	ethyl (2E,4Z)-2,4-decadienoate	196	36.76	4.69	3.07E-04	1.20E+05
Bottom	(+)-3,4'-dimethylspiro[oxirane-2,9'-tricyclo[6.2.1.0~2,7~]undec[4]ene	204	36.76	4.58	9.93E-04	3.70E+04
Bottom	(-)-(S)-1,8-P-MENTHADIEN-7-OL	152	33.78	2.68	2.07E-02	1.63E+03
Bottom	7-methyl-2H-1,5-benzodioxepin-3(4H)-one	190	32.27	3.53	6.05E-05	5.33E+05
Bottom	1-DECANOL	158	31.90	4.10	1.13E-02	2.83E+03
Bottom	2-BENZYL-4,4,6-TRIMETHYL-1,3-DIOXANE	220	29.99	3.39	5.26E-02	5.70E+02
Bottom	ETHYL (2E)-2,4,7-DECATRIENOATE	194	25.34	4.25	1.49E-02	1.70E+03
Bottom	(2S,5R)-5-methyl-2-(2-propanyl)cyclohexanone oxime	169	22.29	2.81	5.52E-05	4.04E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-3-(4-methoxyphenyl)-2-methylpropanal	178	18.99	2.80	9.79E-03	1.94E+03
Bottom	(+)-3-(3-ISOPROPYL-1-PHENYL)BUTANAL	194	14.74	2.01	7.71E-04	1.91E+04
Bottom	(1RS,2SR,8RS)-2-(8-ISOPROPYL-6-METHYL-BICYCLO[2.2.2]OCT-5-EN-2-YL)-1,3-DIOXOLANE	236	11.75	5.51	1.51E-01	7.78E+01
Bottom	(3Z)-3-hexen-1-yl benzoate	204	11.05	4.21	4.37E-02	2.53E+02
Bottom	2-phenoxyethyl 2-methylpropanoate	208	10.05	2.82	3.01E-02	3.34E+02
Bottom	ALLYL PHENOXYACETATE	192	9.94	2.04	1.22E-03	8.13E+03
Bottom	(+)-8-sec-butylquinoline (A) + (+)-6-sec-butylquinoline (B)	185	8.73	4.06	1.93E-04	4.53E+04
Bottom	diethyl cis-1,4-cyclohexanedicarboxylate (A) + diethyl trans-1,4-cyclohexanedicarboxylate (B)	228	8.51	2.65	2.87E-03	2.97E+03
Bottom	(Z)-6-NONEN-1-OL	202	6.91	3.44	6.10E-04	1.13E+04
Bottom	7-PROPYL-2H,4H-1,5-BENZODIOXEPIN-3-ONE	206	4.85	2.79	6.43E-05	7.54E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	7-(2-methyl-2-propanyl)-2H-1,5-benzodioxepin-3(4H)-one	220	4.37	2.97	1.53E-04	2.85E+04
Bottom	(3Z)-3-hexen-1-yl salicylate	220	4.34	4.83	3.23E-04	1.34E+04
Bottom	2-(3-PHENYLPROPYL)PYRIDINE	197	3.83	2.87	1.29E-06	2.98E+06
Bottom	HEXYL 2-HYDROXYBENZOATE	222	3.82	5.55	5.50E-03	6.95E+02
Bottom	(+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1,6-heptadien-3-one (A) + (1E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-1,6-heptadien-3-one (B)	232	3.01	4.86	7.14E-03	4.22E+02
Bottom	(2E)-2-benzylideneoctanal	216	1.15	4.86	1.91E-03	6.01E+02
Bottom	CYCLOHEXYLIDENE(PHENYL)ACETONITRILE	197	0.96	3.24	3.31E-04	2.88E+03

Table 6: Perfuming Compounds Having a Fruity Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	ETHYL ACETATE	88	404705.61	0.80	7.26E-01	5.58E+05
TOP	ETHYL BUTANOATE	116	142519.74	2.03	3.68E-04	3.87E+08

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	ETHYL ISOBUTYRATE	116	132964.09	2.03	1.14E-04	1.17E+09
TOP	BUTYL ACETATE	116	117207.52	2.11	4.18E-01	2.80E+05
TOP	(+)-ethyl 2-methylbutanoate	130	83769.16	2.58	1.26E-04	6.67E+08
TOP	(+)-ISOPROPYL 2-METHYLBUTANOATE	144	51367.63	2.85	8.42E-03	6.10E+06
TOP	3-METHYLBUTYL ACETATE (A) + (+)-2-METHYLBUTYL ACETATE (B)	130	51307.81	2.65	5.92E-02	8.67E+05
TOP	(+)-ETHYL 2-METHYLPENTANOATE	144	35090.18	3.05	3.84E-05	9.14E+08
TOP	(2E)-2-HEXENAL	98	33708.26	1.62	2.53E-03	1.33E+07
TOP	3-methyl-2-buten-1-yl acetate	128	27705.98	2.19	5.58E-02	4.97E+05
TOP	2-HEPTANONE	114	26409.73	2.09	5.85E-02	4.52E+05
TOP	METHYL HEXANOATE	130	23345.90	2.65	8.43E-02	2.77E+05
TOP	7-METHYL-3-METHYLENE-1,6-OCTADIENE	136	15094.56	5.33	4.12E-02	3.66E+05
TOP	5-METHYL-3-HEPTANONE	128	14141.42	2.43	9.87E-02	1.43E+05
TOP	(+)-LIMONENE	136	10216.93	5.40	1.29E-01	7.92E+04
TOP	(+)-4-methyl-4-penten-2-yl 2-methylpropanoate	170	9902.98	3.57	2.26E-01	4.39E+04
TOP	(Z)-3-HEXENYL FORMATE	128	9873.53	2.17	2.11E-03	4.68E+06
TOP	ETHYL HEXANOATE	144	9675.10	3.12	9.11E-04	1.06E+07

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	ETHYL HEXANOATE	145	9675.10	3.12	9.11E-04	1.06E+07
TOP	3-OCTANONE	128	6787.60	2.56	4.53E-02	1.50E+05
TOP	(+)-methyl 2-ethylhexanoate	158	6677.64	3.37	1.74E-01	3.84E+04
TOP	2-OCTANONE	128	6639.71	2.60	5.37E-02	1.24E+05
TOP	(1R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]oct-3-ene (A) + (1R,4R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]octane (B)	168	6351.47	4.48	7.99E-05	7.95E+07
TOP	(1R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]oct-3-ene (A) + (1R,4R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]octane (B)	167	6351.47	4.48	7.99E-05	7.95E+07
TOP	(1R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]oct-3-ene (A) + (1R,4R,5R)-4,7,7-trimethyl-6-thiabicyclo[3.2.1]octane (B)	168	6351.47	4.48	7.99E-05	7.95E+07
TOP	(E)-2-HEXENYL ACETATE	142	6062.68	2.59	2.08E-01	2.92E+04
TOP	6-METHYL-5-HEPTEN-2-ONE	126	5775.94	2.05	1.06E-01	5.45E+04
TOP	1-ISOBUTYL-3-METHYLBUTYL ACETATE	186	5265.61	4.19	1.62E+00	3.24E+03
TOP	(+)-2,6-DIMETHYL-7-OCTEN-4-ONE	154	4203.89	3.12	2.78E-01	1.51E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(2Z)-3-methyl-2-hexen-1-yl acetate (A) + (2E)-3-methyl-2-hexen-1-yl acetate (B)	156	4131.05	3.11	2.73E-02	1.51E+05
TOP	3,7-DIMETHYL-1,3,6-OCTATRIENE	136	3480.57	4.91	2.57E-02	1.35E+05
TOP	ethyl heptanoate	158	3052.89	3.58	7.17E-03	4.26E+05
TOP	ETHYL 3-OXOBUTANOATE (A) <=> (2Z)-ETHYL 3-HYDROXY-2-BUTENOATE (B)	130	2885.67	0.35	5.83E-02	4.95E+04
TOP	heptyl acetate	158	2814.34	3.69	1.32E-01	2.14E+04
TOP	3-METHYLBUTYL BUTANOATE (A) + 2-METHYLBUTYL BUTANOATE (B)	158	2611.71	3.52	2.08E-01	1.26E+04
TOP	PENTYL BUTANOATE (A) + 2-METHYLBUTYL BUTANOATE (B)	158	2611.71	3.52	2.08E-01	1.26E+04
TOP	PENTYL BUTANOATE (A) + 2-METHYLBUTYL BUTANOATE (B)	159	2611.71	3.52	2.08E-01	1.26E+04
TOP	(+)-4-PENTANOLIDE	100	2355.15	-0.12	6.62E-01	3.56E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	HEXYL ACETATE	144	2316.04	3.09	1.32E-01	1.75E+04
TOP	(+)-2,6-DIMETHYL-5-HEPTENAL	140	1889.68	3.15	2.11E-04	8.96E+06
TOP	methyl (1RS,2SR)-2,6,6-trimethyl-3-cyclohexene-1-carboxylate (A) + methyl (1RS,2RS)-2,6,6-trimethyl-3-cyclohexene-1-carboxylate (B)	182	1879.01	3.63	9.00E-03	2.09E+05
TOP	(3Z)-3-hexen-1-yl butyrate	170	1674.15	3.59	7.85E-02	2.13E+04
TOP	hexyl 2-methylpropanoate	172	1661.18	4.31	7.15E-01	2.32E+03
TOP	ethyl (2E)-2,4-dimethyl-2-pentenoate	156	1618.37	3.35	9.55E-03	1.69E+05
TOP	3-METHYLBUTANOIC ACID	102	1530.76	1.49	2.23E-04	6.87E+06
TOP	(+)-1-PENTYL-2-PROPENYL ACETATE	170	1506.95	3.79	4.84E-02	3.12E+04
TOP	(3Z)-hex-3-en-1-yl methyl carbonate	158	1506.33	2.97	4.58E-02	3.29E+04
TOP	3,5,5-TRIMETHYLHEXYL ACETATE	186	1461.80	4.17	1.28E+00	1.14E+03
TOP	ETHYL BENZOATE	150	1285.12	2.51	1.54E-02	8.34E+04
TOP	ALLYL HEPTANOATE	170	1235.24	4.16	1.75E-02	7.06E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	1-(3,3-DIMETHYL-1-CYCLOHEXYL) ETHYL FORMATE	184	1129.46	4.01	2.05E-01	5.50E+03
TOP	(2RS,4SR)-2-methyl-4-propyl-1,3-oxathiane (A) + (2RS,4RS)-2-methyl-4-propyl-1,3-oxathiane (B)	160	1113.06	3.11	1.47E-03	7.57E+05
TOP	methyl cyclopentylideneacetate	140	1091.46	2.02	2.80E-02	3.90E+04
TOP	(+)-methyl 2,2-dimethyl-6-methylidenecyclohexanecarboxylate	182	1089.25	3.93	5.78E-04	1.88E+06
TOP	(Z)-3-HEXENYL ISOBUTYRATE	170	1073.97	3.57	4.54E-02	2.36E+04
TOP	(-)-PROPYL (S)-2-(1,1-DIMETHYLPROPOXY)PROPANOATE	202	995.16	3.17	4.98E-01	2.00E+03
TOP	ALLYL HEXANOATE	156	941.49	3.62	4.58E-02	2.06E+04
TOP	(+)-3,7-dimethyl-1,6-octadien-3-ol	154	896.72	2.94	8.89E-05	1.01E+07
TOP	(+)-(Z)-3-HEXENYL 2-METHYLBUTANOATE	184	833.05	3.84	1.96E-02	4.24E+04
TOP	octyl acetate	172	666.51	4.29	1.76E-01	3.78E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(A) + (+-)-3,5,6,6-tetramethyl-4-methylidene-2-heptanone (B) + (+-)-(4E)-3,4,5,6,6-pentamethyl-4-hepten-2-one (C) + (+-)-(3Z)-3,4,5,6,6-pentamethyl-3-hepten-2-one (D) + (+-)-(3E)-3,4,5,6,6-pentamethyl-3-hepten-2-one (E)	182	659.22	3.71	7.24E-02	9.11E+03
TOP	1-METHOXY-4-PROPYLBENZENE	150	629.29	4.02	5.37E-04	1.17E+06
TOP	(+)-(3-methoxy-2-methylpropyl)benzene	164	587.76	3.57	1.51E-02	3.89E+04
TOP	2-PHENYLETHYL FORMATE	150	567.67	1.90	8.34E-04	6.81E+05
TOP	(+)-2-pentylcyclopentanone	154	560.22	3.62	1.28E-03	4.38E+05
TOP	METHYL PHENYLACETATE	150	555.30	1.98	3.21E-04	1.73E+06
TOP	(+)-(1R)-1,7,7-TRIMETHYL-BICYCLO[2.2.1]HEPTAN-2-ONE	153	555.04	2.50	1.72E-01	3.23E+03
TOP	3-(2,2-DIMETHYLPROPYL)PYRIDINE	149	516.21	3.17	2.82E-03	1.83E+05
TOP	benzyl acetate	150	507.38	2.04	5.24E-03	9.68E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	2-CYCLOHEXYL ETHYL ACETATE	170	489.45	4.25	4.49E-02	1.09E+04
TOP	ETHYL 2-METHYL-1,3-DIOXOLANE-2-ACETATE	174	479.20	1.12	1.62E-03	2.95E+05
TOP	1-PHENYL-1-ETHANOL	122	470.00	1.42	2.98E-01	1.58E+03
TOP	2-METHYLPENTYL 2-METHYLPENTANOATE	200	450.33	5.13	2.41E-01	1.87E+03
TOP	(+)-2-propylheptanenitrile	153	439.00	3.67	7.83E-02	5.61E+03
TOP	(+)-3-mercaptohexyl acetate	175	421.09	2.64	2.72E-06	1.55E+08
TOP	(+)-3-mercaptohexyl acetate	176	421.09	2.64	2.72E-06	1.55E+08
TOP	(+)-1,5-DIMETHYL-1-VINYL-4-HEXENYL ACETATE	196	409.40	4.04	7.40E-02	5.53E+03
TOP	(1R,2R)-2-(2-methyl-2-propanyl)cyclohexyl acetate (A) + (1R,2S)-2-(2-methyl-2-propanyl)cyclohexyl acetate (B)	198	402.03	4.40	2.12E-02	1.90E+04
TOP	(+)-1-PHENYLETHYL ACETATE	164	387.96	2.22	4.43E-02	8.75E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(2RS,5SR,9RS,10SR)-2,6,9,10-tetramethyl-1-oxaspiro[4.5]deca-3,6-diene (A) + (2RS,5RS,9SR,10RS)-2,6,9,10-tetramethyl-1-oxaspiro[4.5]deca-3,6-diene (B) + (2RS,5RS,9RS,10SR)-2,6,9,10-tetramethyl-1-oxaspiro[4.5]deca-3,6-diene (C) + (2RS,5SR,9SR,10RS)-2,6,9,10-tetramethyl-1-oxaspiro[4.5]deca-3,6-diene (D)	192	379.51	4.29	2.79E-02	1.36E+04
TOP	ETHYL 2,6,6-TRIMETHYL-1,3-CYCLOHEXADIENE-1-CARBOXYLATE	195	368.81	3.16	4.40E-03	8.38E+04
TOP	(+)-1,5-DIMETHYL-1-VINYL-4-HEXENYL ACETATE	196	339.21	4.04	7.40E-02	4.58E+03
TOP	(+)-3,7-dimethyl-6-octen-1-yl formate (A) + (2E)-3,7-dimethyl-2,6-octadien-1-yl formate (B)	184	322.28	3.79	5.28E-04	6.10E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(+)-ethyl 2-acetyl-4-methyl-4-pentenoate	184	295.22	2.15	3.64E-03	8.10E+04
TOP	cis-4-(2-methyl-2-propanyl)cyclohexyl acetate (A) + trans-4-(2-methyl-2-propanyl)cyclohexyl acetate (B)	198	291.85	4.47	5.43E-02	5.37E+03
TOP	ETHYL PHENYLACETATE	164	269.77	2.10	4.19E-04	6.44E+05
TOP	(+)-2,2,5-trimethyl-5-pentylcyclopentanone	196	265.42	4.63	3.25E-02	8.16E+03
TOP	methyl (2E)-2-nonenoate	170	264.84	4.05	5.84E-02	4.53E+03
TOP	(+)-2,4-dimethyl-4-phenyltetrahydrofuran	176	263.73	3.02	5.04E-04	5.23E+05
TOP	(+)-3,7-DIMETHYL-6-OCTENYL FORMATE	184	262.84	4.16	1.72E-03	1.53E+05
TOP	ALLYL (3-METHYLBUTOXY)ACETATE (A) + (+)-ALLYL (2-METHYLBUTOXY)ACETATE (B)	186	261.90	2.79	9.89E-05	2.65E+06
TOP	hexyl (2E)-2-methyl-2-butenolate	184	256.81	4.80	1.16E-02	2.22E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(2RS,5SR)-6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene (A) + (2RS,5RS)-6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene (B)	206	252.44	5.07	7.71E-03	3.27E+04
TOP	cis-4-(2-methyl-2-propanyl)cyclohexyl acetate (A) + trans-4-(2-methyl-2-propanyl)cyclohexyl acetate (B)	198	229.76	4.18	2.33E-02	9.87E+03
TOP	(3Z)-3-hexen-1-yl (3Z)-3-hexenoate	196	210.68	4.22	5.17E-02	4.08E+03
TOP	(Z)-3,7-DIMETHYL-2,6-OCTADIENAL (A) + (E)-3,7-DIMETHYL-2,6-OCTADIENAL (B)	152	202.66	2.68	4.12E-03	4.92E+04
TOP	2-PHENYLETHYL ACETATE	164	201.26	2.49	2.14E-03	9.38E+04
TOP	1,1-DIMETHYL-2-PHENYLETHYL ACETATE	192	198.02	3.45	5.16E-02	3.84E+03
TOP	1-methoxy-4-[(1E)-1-propen-1-yl]benzene	148	184.60	3.58	1.23E-03	1.51E+05
TOP	4-PHENYL-2-BUTANONE	148	176.55	1.79	2.22E-04	7.95E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	4-METHYLPHENYL ISOBUTYRATE	178	167.81	3.03	1.66E-05	1.01E+07
TOP	2-PHENYLETHANOL	122	159.75	1.41	1.02E-04	1.56E+06
TOP	(1R,4R)-8-MERCAPTO-3-P-MENTHANONE	186	155.12	2.99	3.43E-05	4.52E+06
TOP	(+)-(E)-1-(2,2-DIMETHYL-6-METHYLENE-1-CYCLOHEXYL)-2-BUTEN-1-ONE	192	152.99	4.11	3.73E-03	4.10E+04
TOP	(2E)-1-[(1R,2SR)-2,6,6-trimethyl-3-cyclohexen-1-yl]-2-buten-1-one	192	143.53	4.13	1.70E-05	8.44E+06
TOP	[2-(1-ETHOXYETHOXY)ETHYL]BENZENE (A) + 1,1-BIS(2-PHENYLETHOXY)ETHANE (B)	270	136.67	2.96	1.59E-03	8.59E+04
TOP	3,7-DIMETHYL-6-OCTENYL ACETATE	198	128.72	4.22	2.75E-02	4.68E+03
TOP	5-METHYL-3-HEPTANONE OXIME	143	128.04	2.45	8.80E-03	1.45E+04
TOP	(2Z)-3,7-dimethyl-2,6-octadien-1-yl acetate	196	123.21	3.81	6.02E-02	2.05E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
TOP	(2E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	190	119.10	3.27	1.68E-05	7.09E+06
TOP	2,4,6-TRIMETHYL-4-PHENYL-1,3-DIOXANE	206	113.83	2.90	7.82E-03	1.46E+04
TOP	BENZYL PROPANOATE	164	113.60	2.35	2.81E-02	4.04E+03
TOP	(+)-(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	192	113.31	3.65	1.04E-04	1.09E+06
TOP	ETHYL TRICYCLO[5.2.1.0.(2,6)]DECANE-2-CARBOXYLATE	208	111.67	4.32	6.87E-05	1.63E+06
TOP	(+)-(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	192	110.53	3.65	1.04E-04	1.06E+06
TOP	3-METHYLBUTYL 2-PHENYLETHYL ETHER	192	110.11	4.31	1.38E-02	7.96E+03
TOP	(+)-4-OCTANOLIDE	142	108.41	1.80	2.32E-05	4.67E+06
TOP	HEXYL HEXANOATE	200	105.52	5.56	9.98E-02	1.06E+03
Middle	(2RS,4SR)-4-methyl-2-phenyltetrahydro-2H-pyran (A) + (2RS,4RS)-4-methyl-2-phenyltetrahydro-2H-pyran (B)	176	99.84	3.47	1.04E-03	9.61E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	tricyclo[5.2.1.0~2,6~]dec-3-en-8-yl acetate (A) + tricyclo[5.2.1.0~2,6~]dec-4-en-8-yl acetate (B)	192	96.53	3.73	7.19E-04	1.34E+05
Middle	3-HYDROXY-2-METHYL-4(4H)-PYRANONE	126	92.42	0.11	4.17E-04	2.22E+05
Middle	(2E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	190	91.38	3.33	3.00E-06	3.04E+07
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIENYL ACETATE (A) + 3,7-DIMETHYL-6-OCTENYL ACETATE (B)	196	85.23	3.99	3.57E-02	2.39E+03
Middle	GERANYL ACETATE (A) + NERYL ACETATE (B)	196	85.23	3.99	3.57E-02	2.39E+03
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIENYL ACETATE	196	85.23	3.99	3.57E-02	2.39E+03
Middle	(2E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-buten-1-one	192	81.66	3.63	2.18E-04	3.75E+05
Middle	4-CYCLOHEXYL-2-METHYL-2-BUTANOL	170	79.34	3.93	2.83E-02	2.81E+03
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIENYL ACETATE	196	79.23	3.99	3.57E-02	2.22E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	ALLYL 3-CYCLOHEXYLP ROPANOATE	196	75.80	4.51	7.96E-03	9.53E+03
Middle	2-PHENYLETHYL PIVALATE	206	71.44	3.69	3.85E-02	1.86E+03
Middle	2-PHENYLETHYL ISOBUTYRATE	192	67.38	3.16	6.70E-03	1.01E+04
Middle	(+)-(E)-4-METHYL-3- DECEN-5-OL	170	64.15	3.63	6.78E-04	9.46E+04
Middle	(+)-(3E)-4-(2,6,6-trimethyl- 2-cyclohexen-1-yl)-3-buten-2-one (A) + (3E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3-buten-2-one (B);	192	64.00	4.22	5.08E-04	1.26E+05
Middle	BENZYL 3-METHYLBUTA NOATE	192	63.56	3.45	7.31E-03	8.70E+03
Middle	METHYL (E)-3-PHENYL-2- PROPENOATE	162	61.65	2.56	3.13E-03	1.97E+04
Middle	(+)-6-propyltetrahydro- 2H-pyran-2-one	142	57.43	1.47	2.17E-04	2.65E+05
Middle	(+)-1,3-DIMETHYL-3-PHENYLBUTYL ACETATE	220	50.65	3.02	1.06E-02	4.77E+03
Bottom	(+)-(1S,4aR,8S,8aR)- 2,2,6,8-tetramethyl- 1,2,3,4,4a,5,8,8a- octahydro-1-naphthalenol	208	48.90	5.24	8.15E-04	6.00E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	2-ETHYL-3-HYDROXY-4(4H)-PYRANONE	141	48.86	0.76	6.45E-05	7.57E+05
Bottom	ALLYL (CYCLOHEXYLOXY)ACETATE	198	47.01	2.62	4.66E-05	1.01E+06
Bottom	1-(3,3-dimethyl-1-cyclohexen-1-yl)-4-penten-1-one (A) + 1-(5,5-dimethyl-1-cyclohexen-1-yl)-4-penten-1-one (B)	192	47.01	3.89	1.64E-06	2.87E+07
Bottom	1-(5,5-dimethyl-1-cyclohexen-1-yl)-4-penten-1-one	192	38.43	3.89	1.64E-06	2.34E+07
Bottom	(+)-2-PHENYLETHYL 2-METHYLBUTANOATE	206	37.73	3.64	8.56E-03	4.41E+03
Bottom	ethyl (2E,4Z)-2,4-decadienoate	196	36.76	4.69	3.07E-04	1.20E+05
Bottom	(+)-3,4'-dimethylspiro[oxirane-2,9'-tricyclo[6.2.1.0~2,7~]undec[4]ene	204	36.76	4.58	9.93E-04	3.70E+04
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	36.33	4.83	1.92E-04	1.89E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-(E)-3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE	206	36.33	4.83	1.92E-04	1.89E+05
Bottom	TRICYCLO[5.2.1.0(2,6)]DEC-3-EN-8-YL PROPANOATE (A) + TRICYCLO[5.2.1.0(2,6)]DEC-4-EN-8-YL PROPANOATE (B)	206	35.82	4.38	2.44E-04	1.47E+05
Bottom	1,1-DIMETHYL-2-PHENYLETHYL BUTANOATE	220	34.65	4.42	2.68E-02	1.29E+03
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	34.44	4.28	1.70E-04	2.03E+05
Bottom	BENZYL (E)-2-METHYL-2-BUTENOATE	190	33.88	3.32	3.07E-04	1.11E+05
Bottom	(+)-4-NONANOLIDE	156	27.42	2.45	1.45E-04	1.89E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(1RS,2RS,6RS,7RS,8SR)-tricyclo[5.2.1.0~2,6~]dec-4-en-8-yl 2-methylpropanoate (A) + (1RS,2SR,6RS,7RS,8SR)-tricyclo[5.2.1.0~2,6~]dec-3-en-8-yl 2-methylpropanoate (B)	220	26.90	4.79	2.26E-03	1.19E+04
Bottom	9-DECEN-1-OL	156	26.88	3.70	8.92E-03	3.01E+03
Bottom	ETHYL (2E)-2,4,7-DECATRIENOATE	194	25.34	4.25	1.49E-02	1.70E+03
Bottom	5-NONANOLIDE	156	23.87	1.82	1.16E-05	2.06E+06
Bottom	(+)-(E)-TRANS-alpha-IRONE (A) + (+)-(E)-CIS-alpha-IRONE (B) + (+)-(E)-beta-IRONE (C)	206	22.11	4.05	9.26E-04	2.39E+04
Bottom	(+)-TRANS-3-METHYL-4-NONANOLIDE	170	21.05	2.59	8.33E-04	2.53E+04
Bottom	ETHYL (E)-3-PHENYL-2-PROPENOATE	176	20.55	3.00	2.38E-05	8.62E+05
Bottom	(E)-3-PHENYL-2-PROPENYL ACETATE	176	20.47	2.52	1.87E-04	1.10E+05
Bottom	4-METHOXYBENZYL ACETATE	180	17.59	2.18	9.24E-05	1.90E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	1,5,9-TRIMETHYL-4,8-DECADIENYL ACETATE	238	14.74	5.28	3.28E-04	4.49E+04
Bottom	ETHYL 2,3-EPOXY-3-PHENYLBUTANOATE	206	12.97	2.30	2.28E-05	5.68E+05
Bottom	(+)-2,2,2-TRICHLORO-1-PHENYLETHYL ACETATE	268	11.96	3.20	1.15E-03	1.04E+04
Bottom	(3Z)-3-hexen-1-yl benzoate	204	11.05	4.21	4.37E-02	2.53E+02
Bottom	(+)-4-DECANOLIDE	170	10.49	3.02	1.61E-04	6.51E+04
Bottom	2-phenoxyethyl 2-methylpropanoate	208	10.05	2.82	3.01E-02	3.34E+02
Bottom	ALLYL PHENOXYACETATE	192	9.94	2.04	1.22E-03	8.13E+03
Bottom	(+)-6-pentyltetrahydro-2H-pyran-2-one	170	9.61	2.22	3.72E-05	2.58E+05
Bottom	diethyl cis-1,4-cyclohexanedicarboxylate (A) + diethyl trans-1,4-cyclohexanedicarboxylate (B)	228	8.51	2.65	2.87E-03	2.97E+03
Bottom	(E)-3-PHENYL-2-PROPENYL PROPANOATE	190	8.14	3.09	1.28E-04	6.35E+04
Bottom	(+)-(E)-8-DECEN-5-OLIDE (A) + (+)-(Z)-8-DECEN-5-OLIDE (B)	168	6.89	2.70	5.14E-04	1.34E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	8(9)-METHOXY-TRICYCLO[5.2.1.0(2,6)]DECANE-3(4)-CARBALDEHYDE	193	5.87	5.00	4.02E-05	1.46E+05
Bottom	4-(4-METHOXYPHENYL)-2-BUTANONE	178	5.58	2.06	5.88E-06	9.49E+05
Bottom	6-hexyltetrahydro-2H-pyran-2-one	184	4.64	3.00	5.85E-05	7.93E+04
Bottom	(+)-(1S,1'R)-2-[1-(3',3'-DIMETHYL-1'-CYCLOHEXYL)ETHOXY]-2-METHYLPROPYLPROPANOATE	284	4.39	5.46	3.69E-04	1.19E+04
Bottom	(+)-(1S,2S,3S,5R)-2,6,6-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexane]-2'-en-4'-one	218	4.14	4.39	6.32E-04	6.54E+03
Bottom	HEXYL 2-HYDROXYBENZOATE	222	3.82	5.55	5.50E-03	6.95E+02
Bottom	(+)-5-heptyldihydro-2(3H)-furanone	184	3.67	3.32	3.16E-05	1.16E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1,6-heptadien-3-one (A) + (1E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-1,6-heptadien-3-one (B)	232	3.01	4.86	7.14E-03	4.22E+02
Bottom	9-ETHYLIDENE-3-OXATRICYCLO [6.2.1.0(2,7)]UNDECAN-4-ONE (A) + 10-ETHYLIDENE-3-OXATRICYCLO [6.2.1.0(2,7)]...(B)	192	2.10	2.29	1.42E-04	1.48E+04
Bottom	(1'R)-2-[2-(4'-METHYL-3'-CYCLOHEXEN-1'-YL)PROPYL]CYCLOPENTANONE	220	2.05	5.19	1.66E-04	1.24E+04
Bottom	(E)-2-METHOXY-4-(1-PROPENYL)PHENYL ACETATE	206	1.85	2.56	4.08E-07	4.54E+06
Bottom	(+)-4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene	258	1.59	6.57	2.62E-04	6.08E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	methyl {(1RS,2RS)-3-oxo-2-[(2Z)-2-penten-1-yl]cyclopentyl}acetate	224	1.59	2.33	5.56E-03	2.86E+02
Bottom	(+)-5-octyldihydro-2(3H)-furanone	198	1.44	3.82	2.85E-05	5.05E+04
Bottom	(2E)-2-benzylideneoctanal	216	1.15	4.86	1.91E-03	6.01E+02
Bottom	4-formyl-2-methoxyphenyl 2-methylpropanoate	222	1.01	1.90	7.33E-05	1.38E+04
Bottom	(+)-6-heptyltetrahydro-2H-pyran-2-one	198	0.90	3.42	1.27E-04	7.06E+03
Bottom	BENZYL BENZOATE	212	0.85	3.64	3.67E-02	2.31E+01
Bottom	BENZYL BENZOATE	213	0.85	3.64	3.67E-02	2.31E+01
Bottom	(10E)-oxacycloheptadec-10-en-2-one	252	0.74	6.15	4.77E-04	1.55E+03
Bottom	(E)-2-PENTYL-3-PHENYL-2-PROPENAL	202	0.68	4.30	3.64E-04	1.87E+03
Bottom	4-(4-HYDROXY-1-PHENYL)-2-BUTANONE	164	0.36	0.93	2.05E-07	1.75E+06
Bottom	2-PHENYLETHYL PHENYLACETATE	240	0.20	3.59	9.08E-04	2.24E+02

Table 7: Perfuming Compounds Having a Citrus Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	hexanal	100	68294.85	2.00	1.76E-03	3.88E+07
Top	(+)-ISOPROPYL 2-METHYLBUTANOATE	144	51367.63	2.85	8.42E-03	6.10E+06
Top	(2E)-2-HEXENAL	98	33708.26	1.62	2.53E-03	1.33E+07
Top	(+)-LIMONENE	136	10216.93	5.40	1.29E-01	7.92E+04
Top	1-methyl-4-(2-propanyl)-1,4-cyclohexadiene	136	4298.67	5.87	1.16E-01	3.70E+04
Top	(+)-2,6-DIMETHYL-7-OCTEN-4-ONE	154	4203.89	3.12	2.78E-01	1.51E+04
Top	heptyl acetate	158	2814.34	3.69	1.32E-01	2.14E+04
Top	nonanal	142	2777.63	3.42	8.14E-03	3.41E+05
Top	(+)-4-PENTANOLIDE	100	2355.15	-0.12	6.62E-01	3.56E+03
Top	1-(3,3-DIMETHYL-1-CYCLOHEXYL) ETHYL FORMATE	184	1129.46	4.01	2.05E-01	5.50E+03
Top	(-)-PROPYL (S)-2-(1,1-DIMETHYLPROPOXY)PROPANOATE	202	995.16	3.17	4.98E-01	2.00E+03
Top	(3Z)-1,3-undecadien-5-yne (A) + (3E)-1,3-undecadien-5-yne (B)	148	990.87	5.11	3.32E-03	2.98E+05
Top	(+)-3,7-dimethyl-1,6-octadien-3-ol	154	896.72	2.94	8.89E-05	1.01E+07

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-3,7-dimethyl-1,6-octadien-3-ol	154	896.72	2.94	8.89E-05	1.01E+07
Top	(+)-3,7-dimethyl-1,6-octadien-3-ol	154	896.72	2.94	8.89E-05	1.01E+07
Top	(E)-4-DECENAL	154	691.34	3.73	7.59E-05	9.11E+06
Top	octyl acetate	172	666.51	4.29	1.76E-01	3.78E+03
Top	(A) + (+)-3,5,6,6-tetramethyl-4-methylidene-2-heptanone (B) + (+)- (4E)-3,4,5,6,6-pentamethyl-4-hepten-2-one (C) + (+)- (3Z)-3,4,5,6,6-pentamethyl-3-hepten-2-one (D) + (+)- (3E)-3,4,5,6,6-pentamethyl-3-hepten-2-one (E)	182	659.22	3.71	7.24E-02	9.11E+03
Top	(+)- (3-methoxy-2-methylpropyl)benzene	164	587.76	3.57	1.51E-02	3.89E+04
Top	2-PHENYLETHYL FORMATE	150	567.67	1.90	8.34E-04	6.81E+05
Top	(+)-2-propylheptanenitrile	153	439.00	3.67	7.83E-02	5.61E+03
Top	(+)-1,5-DIMETHYL-1-VINYL-4-HEXENYL ACETATE	196	409.40	4.04	7.40E-02	5.53E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-1-PHENYLETHYL ACETATE	164	387.96	2.22	4.43E-02	8.75E+03
Top	(+)-1,5-DIMETHYL-1-VINYL-4-HEXENYL ACETATE	196	339.21	4.04	7.40E-02	4.58E+03
Top	cis-4-(2-methyl-2-propanyl)cyclohexyl acetate (A) + trans-4-(2-methyl-2-propanyl)cyclohexyl acetate (B)	198	291.85	4.47	5.43E-02	5.37E+03
Top	(Z)-3,7-DIMETHYL-1,6-NONADIEN-3-OL (A) + (E)-3,7-DIMETHYL-1,6-NONADIEN-3-OL (B)	168	283.43	3.54	1.38E-03	2.05E+05
Top	ALLYL (3-METHYLBUTOXY)ACETATE (A) + (+)-ALLYL (2-METHYLBUTOXY)ACETATE (B)	186	261.90	2.79	9.89E-05	2.65E+06
Top	(Z)-3,7-DIMETHYL-2,6-OCTADIENAL (A) + (E)-3,7-DIMETHYL-2,6-OCTADIENAL (B)	152	202.66	2.68	4.12E-03	4.92E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	(2RS,4SR)-4-methyl-2-phenyltetrahydro-2H-pyran (A) + (2RS,4RS)-4-methyl-2-phenyltetrahydro-2H-pyran (B)	176	99.84	3.47	1.04E-03	9.61E+04
Middle	tricyclo[5.2.1.0~2,6~]dec-3-en-8-yl acetate (A) + tricyclo[5.2.1.0~2,6~]dec-4-en-8-yl acetate (B)	192	96.53	3.73	7.19E-04	1.34E+05
Middle	3,7-DIMETHYL-2,6-OCTADIEN-1-OL	154	89.88	2.97	7.69E-04	1.17E+05
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIEN-1-OL	154	89.88	2.97	7.69E-04	1.17E+05
Middle	CITRONELLOL (A) + GERANIOL (B)	154	89.88	2.97	7.69E-04	1.17E+05
Middle	(E)-3,7-DIMETHYL-2,6-OCTADIEN-1-OL	154	89.88	2.97	7.69E-04	1.17E+05
Middle	(Z)-3,7-DIMETHYL-2,6-OCTADIEN-1-OL	154	86.02	2.91	1.56E-02	5.51E+03
Middle	4-CYCLOHEXYL-2-METHYL-2-BUTANOL	170	79.34	3.93	2.83E-02	2.81E+03
Middle	(+)-3,7-DIMETHYL-1-OCTANOL	158	76.57	4.24	4.59E-02	1.67E+03
Middle	3,7-DIMETHYL-2,6-OCTADIEN-1-OL	154	67.92	2.97	7.69E-04	8.83E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	(+)-6-propyltetrahydro-2H-pyran-2-one	142	57.43	1.47	2.17E-04	2.65E+05
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	36.33	4.83	1.92E-04	1.89E+05
Bottom	TRICYCLO[5.2.1.0(2,6)]DEC-3-EN-8-YL PROPANOATE (A) + TRICYCLO[5.2.1.0(2,6)]DEC-4-EN-8-YL PROPANOATE (B)	206	35.82	4.38	2.44E-04	1.47E+05
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	34.44	4.28	1.70E-04	2.03E+05
Bottom	9-DECEN-1-OL	156	26.88	3.70	8.92E-03	3.01E+03
Bottom	2-ETHOXYNAPHTHALENE	172	22.67	3.82	3.57E-03	6.35E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal (A) + 3-(1,1-dimethyl-2,3-dihydro-1H-inden-4-yl)propanal (B) + 3-(1,1-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal (C)	181	13.68	4.63	4.00E-03	3.42E+03
Bottom	(+)-2,2,2-TRICHLORO-1-PHENYLETHYL ACETATE	268	11.96	3.20	1.15E-03	1.04E+04
Bottom	(3Z)-3-hexen-1-yl benzoate	204	11.05	4.21	4.37E-02	2.53E+02
Bottom	8(9)-METHOXY-TRICYCLO[5.2.1.0(2,6)]DECANE-3(4)-CARBALDEHYDE	193	5.87	5.00	4.02E-05	1.46E+05
Bottom	(+)-(3,7-DIMETHYL-6-OCTENYLOXY) ACETALDEHYDE	198	4.70	4.33	8.95E-04	5.26E+03
Bottom	(+)-(3,7-DIMETHYL-6-OCTENYLOXY) ACETALDEHYDE	198	4.70	4.33	8.95E-04	5.26E+03
Bottom	HEXYL 2-HYDROXYBENZOATE	222	3.82	5.55	5.50E-03	6.95E+02
Bottom	methyl 2-((1R,2R)-3-oxo-2-pentylcyclopentyl)acetate	226	2.12	2.92	5.77E-04	3.67E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	9-ETHYLIDENE-3-OXATRICYCLO [6.2.1.0(2,7)]UNDECAN-4-ONE (A) + 10-ETHYLIDENE-3-OXATRICYCLO [6.2.1.0(2,7)]...(B)	192	2.10	2.29	1.42E-04	1.48E+04
Bottom	(E)-2-METHOXY-4-(1-PROPENYL)PHENYL ACETATE	206	1.85	2.56	4.08E-07	4.54E+06
Bottom	BENZYL BENZOATE	213	0.85	3.64	3.67E-02	2.31E+01
Bottom	(10E)-oxacycloheptadec-10-en-2-one	252	0.74	6.15	4.77E-04	1.55E+03
Bottom	(E)-2-PENTYL-3-PHENYL-2-PROPENAL	202	0.68	4.30	3.64E-04	1.87E+03
Bottom	2-PHENYLETHYL PHENYLACETATE	240	0.20	3.59	9.08E-04	2.24E+02

Table 8: Perfuming Compounds Having a Sweet Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	ETHYL ACETATE	88	404705.61	0.80	7.26E-01	5.58E+05
Top	BUTYL ACETATE	116	117207.52	2.11	4.18E-01	2.80E+05
Top	3-METHYLBUTYL ACETATE (A) + (+-)-2-METHYLBUTYL ACETATE (B)	130	51307.81	2.65	5.92E-02	8.67E+05
Top	(+)-3-HYDROXY-2-BUTANONE	88	33382.87	-1.03	1.46E-02	2.28E+06
Top	2-FURANMETHANETHIOL	114	29677.31	1.70	1.43E-09	2.08E+13
Top	1-BUTANOL	74	17700.00	0.88	8.70E-02	2.03E+05
Top	(+)-4-methyl-4-penten-2-yl 2-methylpropanoate	170	9902.98	3.57	2.26E-01	4.39E+04
Top	ETHYL HEXANOATE	145	9675.10	3.12	9.11E-04	1.06E+07
Top	BENZALDEHYDE	106	8207.00	1.33	4.26E-02	1.93E+05
Top	2,3,5-TRIMETHYLPYRAZINE	122	7897.31	1.27	2.82E-04	2.80E+07
Top	5-METHYL-2-HEPTEN-4-ONE	126	5525.83	1.98	7.62E-07	7.26E+09
Top	DIALLYL DISULFIDE	146	5487.52	3.30	3.98E-05	1.38E+08
Top	(+)-ETHYL 3-METHYL-2-OXOPENTANOATE	158	2276.17	1.96	5.06E-04	4.50E+06
Top	1-phenylethanone	120	1728.98	1.59	6.61E-03	2.62E+05
Top	ALLYL HEPTANOATE	170	1235.24	4.16	1.75E-02	7.06E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-4-HEXANOLIDE	114	841.23	0.48	2.63E-02	3.20E+04
Top	(+)-2-pentylcyclopentanone	154	560.22	3.62	1.28E-03	4.38E+05
Top	METHYL PHENYLACETATE	150	555.30	1.98	3.21E-04	1.73E+06
Top	2-CYCLOHEXYL ETHYL ACETATE	170	489.45	4.25	4.49E-02	1.09E+04
Top	ETHYL 2-METHYL-1,3-DIOXOLANE-2-ACETATE	174	479.20	1.12	1.62E-03	2.95E+05
Top	2-HYDROXY-3-METHYL-2-CYCLOPENTEN-1-ONE	112	396.50	0.08	3.82E-04	1.04E+06
Top	2-METHOXY-4-METHYLPHENOL	138	306.61	1.52	6.96E-04	4.41E+05
Top	(+)-4-HEPTANOLIDE	128	295.34	1.16	5.18E-04	5.70E+05
Top	hexyl (2E)-2-methyl-2-butenolate	184	256.81	4.80	1.16E-02	2.22E+04
Top	(3Z)-3-hexen-1-yl (3Z)-3-hexenoate	196	210.68	4.22	5.17E-02	4.08E+03
Top	2-PHENYLETHYL ACETATE	164	201.26	2.49	2.14E-03	9.38E+04
Top	HEXANOIC ACID	116	197.90	1.92	1.82E-02	1.09E+04
Top	1-methoxy-4-[(1E)-1-propen-1-yl]benzene	148	184.60	3.58	1.23E-03	1.51E+05
Top	2-PHENYLETHANOL	122	159.75	1.41	1.02E-04	1.56E+06

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-(E)-1-(2,2-DIMETHYL-6-METHYLENE-1-CYCLOHEXYL)-2-BUTEN-1-ONE	192	152.99	4.11	3.73E-03	4.10E+04
Top	(2E)-1-[(1RS,2SR)-2,6,6-trimethyl-3-cyclohexen-1-yl]-2-buten-1-one	192	143.53	4.13	1.70E-05	8.44E+06
Top	[2-(1-ETHOXYETHOXY)ETHYL]BENZENE (A) + 1,1-BIS(2-PHENYLETHOXY)ETHANE (B)	270	136.67	2.96	1.59E-03	8.59E+04
Top	5-METHYL-3-HEPTANONE OXIME	143	128.04	2.45	8.80E-03	1.45E+04
Top	(+)-(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	192	110.53	3.65	1.04E-04	1.06E+06
Top	3-METHYLBUTYL 2-PHENYLETHYL ETHER	192	110.11	4.31	1.38E-02	7.96E+03
Middle	(+)-2-PENTYL-1-CYCLOPENTANOL	156	97.79	3.59	5.43E-03	1.80E+04
Middle	(1RS,2SR)-2-pentylcyclopentanol (A) + (1RS,2RS)-2-pentylcyclopentanol (B)	156	97.79	3.59	5.43E-03	1.80E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	3-HYDROXY-2-METHYL-4(4H)-PYRANONE	126	92.42	0.11	4.17E-04	2.22E+05
Middle	ALLYL 3-CYCLOHEXYLPROPANOATE	196	75.80	4.51	7.96E-03	9.53E+03
Middle	2-PHENYLETHYL PIVALATE	206	71.44	3.69	3.85E-02	1.86E+03
Middle	2-PHENYLETHYL ISOBUTYRATE	192	67.38	3.16	6.70E-03	1.01E+04
Middle	4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butanone	194	63.61	3.99	8.51E-03	7.48E+03
Middle	BENZYL 3-METHYLBUTANOATE	192	63.56	3.45	7.31E-03	8.70E+03
Middle	3-methyl-2-[(2Z)-2-penten-1-yl]-2-cyclopenten-1-one	165	56.72	2.61	2.16E-04	2.63E+05
Middle	(+)-6-METHYL-7-OXA-1-THIA-4-AZASPIRO[4.4]NONANE	159	52.47	1.10	2.53E-06	2.07E+07
Middle	2-METHOXYNAPHTHALENE	158	51.04	3.29	1.02E-05	5.00E+06
Bottom	2-ETHYL-3-HYDROXY-4(4H)-PYRANONE	141	48.86	0.76	6.45E-05	7.57E+05
Bottom	1,1-DIMETHYL-2-PHENYLETHYL BUTANOATE	220	34.65	4.42	2.68E-02	1.29E+03
Bottom	5-NONANOLIDE	156	23.87	1.82	1.16E-05	2.06E+06

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-TRANS-3-METHYL-4-NONANOLIDE	170	21.05	2.59	8.33E-04	2.53E+04
Bottom	2,6-DIMETHOXYPHENOL	154	19.23	1.02	8.01E-06	2.40E+06
Bottom	(1E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-1-penten-3-one	206	15.81	4.47	1.16E-04	1.37E+05
Bottom	3-BUTYLIDENE-1-BENZO[C]FURANONE	188	14.37	3.12	8.65E-04	1.66E+04
Bottom	2-methoxy-4-[(1E)-1-propen-1-yl]phenol	164	11.28	2.15	6.63E-06	1.70E+06
Bottom	(+)-4-DECANOLIDE	170	10.49	3.02	1.61E-04	6.51E+04
Bottom	(+)-6-pentyltetrahydro-2H-pyran-2-one	170	9.61	2.22	3.72E-05	2.58E+05
Bottom	2-ISOBUTYLQUINOLINE	185	8.73	4.06	1.93E-04	4.53E+04
Bottom	diethyl cis-1,4-cyclohexanedicarboxylate (A) + diethyl trans-1,4-cyclohexanedicarboxylate (B)	228	8.51	2.65	2.87E-03	2.97E+03
Bottom	(+)-(E)-8-DECEN-5-OLIDE (A) + (+)-(Z)-8-DECEN-5-OLIDE (B)	168	6.89	2.70	5.14E-04	1.34E+04
Bottom	4-(4-METHOXYPHENYL)-2-BUTANONE	178	5.58	2.06	5.88E-06	9.49E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	6-hexyltetrahydro-2H-pyran-2-one	184	4.64	3.00	5.85E-05	7.93E+04
Bottom	4-hydroxy-3-methoxybenzaldehyde	152	4.24	0.72	6.75E-06	6.28E+05
Bottom	(+)-5-heptyldihydro-2(3H)-furanone	184	3.67	3.32	3.16E-05	1.16E+05
Bottom	2-(4-METHYL-1,3-THIAZOL-5-YL)-1-ETHANOL	143	2.36	0.22	2.43E-04	9.71E+03
Bottom	(1'R)-2-[2-(4'-METHYL-3'-CYCLOHEXEN-1'-YL)PROPYL]CYCLOPENTANONE	220	2.05	5.19	1.66E-04	1.24E+04
Bottom	4-formyl-2-methoxyphenyl 2-methylpropanoate	222	1.01	1.90	7.33E-05	1.38E+04
Bottom	(+)-6-heptyltetrahydro-2H-pyran-2-one	198	0.90	3.42	1.27E-04	7.06E+03
Bottom	2-CHROMENONE	146	0.51	1.35	1.62E-05	3.16E+04
Bottom	1,4-dioxacyclohexadecane-5,16-dione	256	0.46	3.83	7.05E-04	6.55E+02
Bottom	2-PHENYLETHYL PHENYLACETATE	240	0.20	3.59	9.08E-04	2.24E+02
Bottom	3-ethoxy-4-hydroxybenzaldehyde	166	0.11	1.27	2.10E-05	5.25E+03

[0161]

[0162] Table 9: Perfuming Compounds Having a Gourmand Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	BUTYL ACETATE	116	117207.52	2.11	4.18E-01	2.80E+05
Top	3-METHYLBUTYL ACETATE (A) + (+-)-2-METHYLBUTYL ACETATE (B)	130	51307.81	2.65	5.92E-02	8.67E+05
Top	(+)-3-HYDROXY-2-BUTANONE	88	33382.87	-1.03	1.46E-02	2.28E+06
Top	1-BUTANOL	74	17700.00	0.88	8.70E-02	2.03E+05
Top	(+)-4-methyl-4-penten-2-yl 2-methylpropanoate	170	9902.98	3.57	2.26E-01	4.39E+04
Top	ETHYL HEXANOATE	145	9675.10	3.12	9.11E-04	1.06E+07
Top	DIALLYL DISULFIDE	146	5487.52	3.30	3.98E-05	1.38E+08
Top	ALLYL HEPTANOATE	170	1235.24	4.16	1.75E-02	7.06E+04
Top	(+)-2-pentylcyclopentane	154	560.22	3.62	1.28E-03	4.38E+05
Top	METHYL PHENYLACETATE	150	555.30	1.98	3.21E-04	1.73E+06
Top	2-CYCLOHEXYL ETHYL ACETATE	170	489.45	4.25	4.49E-02	1.09E+04
Top	ETHYL 2-METHYL-1,3-DIOXOLANE-2-ACETATE	174	479.20	1.12	1.62E-03	2.95E+05
Top	(3Z)-3-hexen-1-yl (3Z)-3-hexenoate	196	210.68	4.22	5.17E-02	4.08E+03
Top	2-PHENYLETHYL ACETATE	164	201.26	2.49	2.14E-03	9.38E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	HEXANOIC ACID	116	197.90	1.92	1.82E-02	1.09E+04
Top	1-methoxy-4-[(1E)-1-propen-1-yl]benzene	148	184.60	3.58	1.23E-03	1.51E+05
Top	2-PHENYLETHANOL	122	159.75	1.41	1.02E-04	1.56E+06
Top	(+)-(E)-1-(2,2-DIMETHYL-6-METHYLENE-1-CYCLOHEXYL)-2-BUTEN-1-ONE	192	152.99	4.11	3.73E-03	4.10E+04
Top	(2E)-1-[(1RS,2SR)-2,6,6-trimethyl-3-cyclohexen-1-yl]-2-buten-1-one	192	143.53	4.13	1.70E-05	8.44E+06
Top	[2-(1-ETHOXYETHOXY)ETHYL]BENZENE (A) + 1,1-BIS(2-PHENYLETHOXY)ETHANE (B)	270	136.67	2.96	1.59E-03	8.59E+04
Top	5-METHYL-3-HEPTANONE OXIME	143	128.04	2.45	8.80E-03	1.45E+04
Top	3-METHYLBUTYL 2-PHENYLETHYL ETHER	192	110.11	4.31	1.38E-02	7.96E+03
Top	(+)-4-OCTANOLIDE	142	108.41	1.80	2.32E-05	4.67E+06

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	(3RS,3ARS,6SR,7ASR)-PERHYDRO-3,6-DIMETHYL-BENZO[B]FURAN-2-ONE (A) + (3SR,3ARS,6SR,7ASR)-PERHYDRO-3,6-DIMETHYL-BENZO[B]FURAN-2-ONE (B)	168	80.76	2.14	1.84E-06	4.39E+07
Middle	ALLYL 3-CYCLOHEXYLPROPANOATE	196	75.80	4.51	7.96E-03	9.53E+03
Middle	(3S,3aS,6R,7aR)-3,6-dimethylhexahydro-1-benzofuran-2(3H)-one	168	74.03	2.11	3.46E-05	2.14E+06
Middle	2-PHENYLETHYL PIVALATE	206	71.44	3.69	3.85E-02	1.86E+03
Middle	2-PHENYLETHYL ISOBUTYRATE	192	67.38	3.16	6.70E-03	1.01E+04
Middle	1-oxaspiro[4.5]decan-2-one	154	62.86	1.66	2.90E-04	2.17E+05
Middle	benzo[d][1,3]dioxole-5-carbaldehyde	150	61.82	1.52	1.01E-04	6.12E+05
Middle	3-methyl-2-[(2Z)-2-penten-1-yl]-2-cyclopenten-1-one	165	56.72	2.61	2.16E-04	2.63E+05
Middle	2-METHOXYNAPHTHALENE	158	51.04	3.29	1.02E-05	5.00E+06

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	1,1-DIMETHYL-2-PHENYLETHYL BUTANOATE	220	34.65	4.42	2.68E-02	1.29E+03
Bottom	(+)-4-NONANOLIDE	156	27.42	2.45	1.45E-04	1.89E+05
Bottom	5-NONANOLIDE	156	23.87	1.82	1.16E-05	2.06E+06
Bottom	(+)-TRANS-3-METHYL-4-NONANOLIDE	170	21.05	2.59	8.33E-04	2.53E+04
Bottom	2,6-DIMETHOXYPHENOL	154	19.23	1.02	8.01E-06	2.40E+06
Bottom	(1E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-1-penten-3-one	206	15.81	4.47	1.16E-04	1.37E+05
Bottom	3-BUTYLIDENE-1-BENZO[C]FURANONE	188	14.37	3.12	8.65E-04	1.66E+04
Bottom	2-methoxy-4-[(1E)-1-propen-1-yl]phenol	164	11.28	2.15	6.63E-06	1.70E+06
Bottom	(+)-4-DECANOLIDE	170	10.49	3.02	1.61E-04	6.51E+04
Bottom	(+)-6-pentyltetrahydro-2H-pyran-2-one	170	9.61	2.22	3.72E-05	2.58E+05
Bottom	diethyl cis-1,4-cyclohexanedicarboxylate (A) + diethyl trans-1,4-cyclohexanedicarboxylate (B)	228	8.51	2.65	2.87E-03	2.97E+03
Bottom	(+)-(E)-8-DECEN-5-OLIDE (A) + (+)-(Z)-8-DECEN-5-OLIDE (B)	168	6.89	2.70	5.14E-04	1.34E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	4-(4-METHOXYPHENYL)-2-BUTANONE	178	5.58	2.06	5.88E-06	9.49E+05
Bottom	6-hexyltetrahydro-2H-pyran-2-one	184	4.64	3.00	5.85E-05	7.93E+04
Bottom	4-hydroxy-3-methoxybenzaldehyde	152	4.24	0.72	6.75E-06	6.28E+05
Bottom	(+)-5-heptyldihydro-2(3H)-furanone	184	3.67	3.32	3.16E-05	1.16E+05
Bottom	(1'R)-2-[2-(4'-METHYL-3'-CYCLOHEXEN-1'-YL)PROPYL]CYCLOPENTANONE	220	2.05	5.19	1.66E-04	1.24E+04
Bottom	4-formyl-2-methoxyphenyl 2-methylpropanoate	222	1.01	1.90	7.33E-05	1.38E+04
Bottom	(+)-6-heptyltetrahydro-2H-pyran-2-one	198	0.90	3.42	1.27E-04	7.06E+03
Bottom	2-CHROMENONE	146	0.51	1.35	1.62E-05	3.16E+04
Bottom	2-PHENYLETHYL PHENYLACETATE	240	0.20	3.59	9.08E-04	2.24E+02

Table 10: Perfuming Compounds Having a Woody Note

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	1-BUTANOL	74	17700.00	0.88	8.70E-02	2.03E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	(+)-methyl 2-ethylhexanoate	158	6677.64	3.37	1.74E-01	3.84E+04
Top	3-METHYLBUTANOIC ACID	102	1530.76	1.49	2.23E-04	6.87E+06
Top	6,6-DIMETHOXY-2,5,5-TRIMETHYL-2-HEXENE	186	1311.32	3.90	1.26E-02	1.04E+05
Top	4-(2-methyl-2-propanyl)cyclohexanone	154	755.28	2.77	1.15E-01	6.57E+03
Top	(1R,2R)-1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPT-2-YL ACETATE	196	735.37	4.13	4.46E-02	1.65E+04
Top	(A) + (+)-3,5,6,6-tetramethyl-4-methylidene-2-heptanone (B) + (+)-(4E)-3,4,5,6,6-pentamethyl-4-hepten-2-one (C) + (+)-(3Z)-3,4,5,6,6-pentamethyl-3-hepten-2-one (D) + (+)-(3E)-3,4,5,6,6-pentamethyl-3-hepten-2-one (E)	182	659.22	3.71	7.24E-02	9.11E+03
Top	(+)-(3Z)-3,4,5,6,6-PENTAMETHYLL-3-HEPTEN-2-ONE	182	659.22	3.71	7.24E-02	9.11E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Top	cis-4-(2-methyl-2-propanyl)cyclohexyl acetate (A) + trans-4-(2-methyl-2-propanyl)cyclohexyl acetate (B)	198	229.76	4.18	2.33E-02	9.87E+03
Top	(1S,2S,4S)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl propanoate	210	216.42	4.66	4.55E-02	4.76E+03
Top	(+)-1-(2-TERT-BUTYL-1-CYCLOHEXYLOXY)-2-BUTANOL	228	205.05	4.65	3.53E-02	5.81E+03
Top	(+)-ALPHA-TERPINEOL	154	172.78	2.91	1.03E-01	1.68E+03
Top	(+)-2-ETHOXY-2,6,6-TRIMETHYL-9-METHYLENE-BICYCLO[3.3.1]NONANE	222	135.00	6.50	1.37E-01	9.83E+02
Top	(+)-(2E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	192	110.53	3.65	1.04E-04	1.06E+06
Top	(+)-(E)-3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE	206	106.28	4.09	5.03E-05	2.11E+06
Middle	(2E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	190	91.38	3.33	3.00E-06	3.04E+07

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	(5RS,6RS)-2,6,10,10-TETRAMETHYL-1-OXASPIRO[4.5]DECAN-6-OL	212	84.04	3.51	5.15E-04	1.63E+05
Middle	2-TERT-BUTYL-1,4-DIMETHOXYBENZENE	194	82.95	4.00	1.65E-02	5.02E+03
Middle	(2E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-buten-1-one	192	81.66	3.63	2.18E-04	3.75E+05
Middle	(+)-3ENDOMETHOXY-7,7-DIMETHYL-10-METHYLENE-BICYCLO[4.3.1]DECANE (A) + (+)-3EXOMETHOXY-7,7-DIMETHYL-10-METHYLENE-BICYCLO[4.3.1]DECANE (B)	208	79.45	5.73	4.82E-03	1.65E+04
Middle	(E)-3-PHENYL-2-PROPENAL	132	70.14	1.50	1.36E-03	5.16E+04
Middle	(Z)-3-PHENYL-2-PROPENAL (A) + (E)-3-PHENYL-2-PROPENAL (B)	132	70.14	1.50	1.36E-03	5.16E+04
Middle	(E)-3-PHENYL-2-PROPENAL	132	70.14	1.50	1.36E-03	5.16E+04
Middle	(E)-3-PHENYL-2-PROPENENITRILE	129	66.00	1.98	8.97E-05	7.36E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Middle	4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butanone	194	63.61	3.99	8.51E-03	7.48E+03
Middle	(2R)-2-methyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-pentenal (A) + (2S)-2-methyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-pentenal (B)	206	63.49	4.25	2.22E-03	2.86E+04
Middle	2-(6,6-DIMETHYL-BICYCLO[3.1.1]HEPT-2-EN-2-YL)ETHYL ACETATE	208	60.02	4.41	1.10E-01	5.45E+02
Middle	1,2,3,4,5,6,7,8-OCTAHYDRO-8,8-DIMETHYL-2-NAPHTHALENE CARBALDEHYDE (A) + (B,C,D) + OCTAHYDRO-5,5-DIMETHYL-2-NAPHTHALENE CARBALDEHYDE	192	55.09	3.65	3.91E-03	1.41E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	43.62	4.22	6.30E-05	6.92E+05
Bottom	(+)-8-methoxycedrane	236	42.22	7.59	2.09E-02	2.02E+03
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	36.33	4.83	1.92E-04	1.89E+05
Bottom	(+)-7-METHOXY-3,7-DIMETHYL-2-OCTANOL	188	35.54	2.19	2.66E-02	1.34E+03
Bottom	(3E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	192	35.41	3.88	3.58E-05	9.89E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-(E)-3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE (A) + (E)-1-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-1-PENTEN-3-ONE (B) + (+)-(E)-1-(2,2-DIMETHYL-6-METHYLENE-1-CYCLOHEXYL)-1-PENTEN-3-ONE (C) + (E)-1-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-1-PENTEN-3-ONE (D)	206	34.78	4.09	2.15E-04	1.62E+05
Bottom	(+)-(3E)-3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (A) + (+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1-penten-3-one (B)	206	34.44	4.28	1.70E-04	2.03E+05
Bottom	BENZYL (E)-2-METHYL-2-BUTENOATE	190	33.88	3.32	3.07E-04	1.11E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine (ISOMER A) + (+)-2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine (ISOMER B) (A + B)	204	32.53	2.44	2.43E-04	1.34E+05
Bottom	1,2,3,5,6,7-HEXAHYDRO-1,1,2,3,3-PENTAMETHYL-4-INDENONE	207	29.81	3.65	4.57E-03	6.52E+03
Bottom	(+)-(6RS,10RS)-2,2,8,10-tetramethylspiro[5.5]undec-8-en-1-one (A) + (+)-(6RS,10SR)-2,2,8,10-tetramethylspiro[5.5]undec-8-en-1-one (B) + (6RS,7RS)-2,2,7,9-tetramethylspiro[5.5]undec-8-en-1-one (C) + (6RS,7SR)-2,2,7,9-tetramethylspiro[5.5]undec-8-en-1-one (D)	220	22.40	5.40	5.59E-03	4.01E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-(E)-4-(2,2,C-3,T-6-TETRAMETHYL-R-1-CYCLOHEXYL)-3-BUTEN-2-ONE	208	20.50	4.62	5.14E-04	3.99E+04
Bottom	(+)-(E)-4-(2,2,C-3,T-6-TETRAMETHYL-R-1-CYCLOHEXYL)-3-BUTEN-2-ONE (A) + (+)-(E)-4-(2,2,T-3,T-6-TETRAMETHYL-R-1-CYCLOHEXYL)-3-BUTEN-2-ONE (B)	208	20.50	4.62	5.14E-04	3.99E+04
Bottom	(E)-3-METHYL-5-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-4-PENTEN-2-OL	208	20.41	4.33	9.56E-05	2.13E+05
Bottom	(2R,4E)-3,3-dimethyl-5-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-penten-2-ol (A) + (2S,4E)-3,3-dimethyl-5-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-penten-2-ol (B)	222	16.31	4.77	7.11E-05	2.29E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	5,5,8a-trimethyldecahydro-2-naphthalenyl acetate	238	14.41	5.50	4.19E-04	3.44E+04
Bottom	(2RS,4aRS,8aSR)-5,5,8a-trimethyldecahydro-2-naphthalenyl acetate	238	14.41	5.50	4.19E-04	3.44E+04
Bottom	(+)-3,6,8,8-tetramethyloctahydro-1H-3a,7-methanoazulen-6-ol	222	11.83	5.39	3.38E-02	3.51E+02
Bottom	(+)-1-(OCTAHYDRO-2,3,8,8-TETRAMETHYLNAPHTHALENYL)-1-ETHANONE (DOUBLE BOND: 4A,5 (A) + 4,4A (B) + 4A,8A (C))	234	10.59	5.55	2.59E-04	4.09E+04
Bottom	3aRS,5aSR,9aSR,9bSR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan	236	9.23	6.93	2.16E-03	4.28E+03
Bottom	(1RS,6RS,11RS)-2,2,9,11-tetramethylspiro[5.5]undec-8-en-1-yl acetate	264	8.25	6.44	3.79E-03	2.18E+03
Bottom	(-)-(3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan	236	8.02	6.87	1.08E-05	7.45E+05

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-1-(OCTAHYDRO-2,3,8,8-TETRAETHYL-1-NAPHTHALENYL)-1-ETHANONE (DOUBLE BOND: 4A,5 (A) + 4,4A (B) + 4A,8A (C))	234	7.59	5.24	4.24E-04	1.79E+04
Bottom	(+)-(4Z,8E)-1,5,8-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene (A) + (+)-(4Z,8E)-1,4,8-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene (B)	220	7.11	4.88	7.14E-03	9.96E+02
Bottom	(1S,4S,9S,10R,13R)-5,5,9,13-tetramethyl-14,16-dioxatetracyclo[1.2.1.0~1,10~.0~4,9~]hexadecane (A) + (1R,4S,9S,10R,13S)-5,5,9,13-tetramethyl-14,16-dioxatetracyclo[1.2.1.0~1,10~.0~4,9~]hexadecane (B)	278	6.77	4.59	4.36E-04	1.55E+04
Bottom	(ETHOXYMETHOXY)CYCLODECANE	242	6.63	6.59	8.90E-02	7.45E+01

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-pentanol	210	5.22	4.68	1.52E-03	3.43E+03
Bottom	(2S)-2-methyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-penten-1-ol (A) + (2R)-2-methyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-4-penten-1-ol (B)	208	5.04	4.43	1.70E-05	2.97E+05
Bottom	(+)-(1-ethoxyethoxy)cyclododecane	256	5.04	6.68	2.51E-02	2.01E+02
Bottom	(+)-(1R,7R)-10,10-DIMETHYL-TRICYCLO[7.1.1.0(2,7)]UNDEC-2-EN-4-ONE	190	4.86	3.00	2.86E-05	1.70E+05
Bottom	(+)-(1S,2S,3S,5R)-2,6,6-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexane]-2'-en-4'-one	218	4.14	4.39	6.32E-04	6.54E+03
Bottom	2-(2,4-DIMETHYL-3-CYCLOHEXEN-1-YL)-5-METHYL-5-(1-METHYLPROPYL)-1,3-DIOXANE	266	3.82	6.50	1.67E-03	2.28E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-2-ETHYL-4-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-2-BUTEN-1-OL	208	3.69	4.39	7.80E-05	4.73E+04
Bottom	(+)-1-(2,2,3,6-TETRAMETHYL-CYCLOHEXYL)-3-HEXANOL	240	3.42	5.96	4.05E-04	8.44E+03
Bottom	9-ACETYL-8-CEDRENE + CEDARWOOD SESQUITERPENES	246	3.21	5.84	1.43E-03	2.25E+03
Bottom	(+)-(1E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-1,6-heptadien-3-one (A) + (1E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-1,6-heptadien-3-one (B)	232	3.01	4.86	7.14E-03	4.22E+02
Bottom	(-)-(2E)-2-ethyl-4-[(1R)-2,2,3-trimethyl-3-cyclopenten-1-yl]-2-buten-1-ol	208	2.75	4.44	2.41E-05	1.14E+05
Bottom	1-[(1R,6SR)-2,2,6-trimethylcyclohexyl]-3-hexanol	226	2.34	5.42	5.92E-04	3.95E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(3R)-1-[(1R,6S)-2,2,6-trimethylcyclohexyl]-3-hexanol (A) + (3S)-1-[(1R,6S)-2,2,6-trimethylcyclohexyl]-3-hexanol (B) + (3R)-1-[(1S,6S)-2,2,6-trimethylcyclohexyl]-3-hexanol (C)	226	2.20	5.52	4.40E-04	5.00E+03
Bottom	(-)-(3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan	236	2.19	6.88	1.31E-05	1.68E+05
Bottom	(3aRS,5aSR,9aSR,9bRS)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan (A) + (3aRS,5aSR,9aSR,9bSR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan (B)	236	2.19	5.95	6.49E-05	3.37E+04
Bottom	(-)-(3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan	236	2.19	6.85	3.94E-05	5.56E+04

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	(+)-1-(OCTAHYDRO-2,3,8,8-TETRAE-2-NAPHTHALENYL)-1-ETHANONE (DOUBLE BOND: 4A,5 (A) + 4,4A (B) + 4A,8A (C))	234	1.85	5.82	5.57E-04	3.33E+03
Bottom	(1'S,3'R)-{1-METHYL-2-[(1',2',2'-TRIMETHYLBICYCLO[3.1.0]HEX-3'-YL)METHYL]CYCLOPROPYL} METHANOL	222	1.74	4.82	2.18E-06	8.01E+05
Bottom	(+)-METHYL (1R)-CIS-3-OXO-2-PENTYL-1-CYCLOPENTANECETATE	226	1.71	2.95	2.82E-04	6.06E+03
Bottom	2/3/4-(5,5,6-TRIMETHYLBICYCLO[2.2.1]HEPT-2-YL)-1-CYCLOHEXANOL (A/B/C) + 2-(1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPT-2-YL)-1-CYCLOHEXANOL (D)	236	1.38	5.23	7.70E-04	1.79E+03

Type	Name	Molecular Weight	Volatility (µg/l air)	Log P (n-octanol/water)	Odor Threshold (µg/l air)	Odor Value
Bottom	1-(2,6,10-TRIMETHYL-1(2),5,9-CYCLODODECATRIEN-1-YL)-1-ETHANONE + 1-(6,10-DIMETHYL-2-METHYLENE-5,9-..)-1-E...	246	1.24	5.94	3.88E-04	3.19E+03
Bottom	(-)-(1R,3S,7R,8R,10S,13R)-5,5,7,9,9,13-HEXAMETHYL-4,6-DIOXATETRACYCLO[6.5.1.0(1,10).0(3,7)]TETRADECANE	278	0.00	4.23	3.90E-06	6.26E+02

[0163] Publications cited throughout this document are hereby incorporated by reference in their entirety. Although the various aspects of the invention have been illustrated above by reference to examples and preferred embodiments, it will be appreciated that the scope of the invention is defined not by the foregoing description but by the following claims properly construed under principles of patent law.

CLAIMS

1. A perfume composition comprising at least two perfuming accords,
wherein a first perfume accord of the at least two perfuming accords
comprises perfuming compounds dominated by a first olfactive note,
5 wherein a second perfume accord of the at least two perfuming accords
comprises perfuming compounds dominated by a second olfactive note,
wherein the first and second olfactive notes are contrasting notes,
wherein the first perfume accord is present in the perfume composition in
an amount sufficient for the first olfactive note to be perceived by a subject
10 at a first time,
wherein the second perfume accord is present in the perfume composition
in an amount sufficient for the second olfactive note to be perceived by a
subject at a second time, and
wherein the perception of the first olfactive note and the second olfactive
15 note is at a level sufficient to reduce, prevent, or suppress a reduced
perception of the perfume composition by the subject over time.
2. The perfume composition of claim 1, wherein the second time is after the third
time.
- 20 3. The perfume composition of claim 1, wherein the first perfume accord comprises
perfuming compounds having a volatility ranging from 70,000 to 100 $\mu\text{g/l}$ in air.
4. The perfume composition of claim 1, wherein the second perfume accord
25 comprises perfuming compounds having a volatility ranging from 99 to 50 $\mu\text{g/l}$ in
air.
5. The perfume composition of claim 1, wherein the perfume composition further
comprises a third perfume accord comprising perfuming compounds dominated by
30 a third olfactive note, wherein the third perfume accord is present in the perfume

composition in an amount sufficient for the third olfactive note to be perceived by a subject at a third time.

- 5
6. The perfume composition of claim 5, wherein the third time is after the second time.
7. The perfume composition of claim 5, wherein the third perfume accord comprises perfuming compounds having a volatility ranging from 49 to 0.1 $\mu\text{g/l}$ in air.
- 10
8. The perfume composition of claim 1, wherein the sufficient amount of the first perfume accord is from 30% to 70% by weight of the perfume composition.
9. The perfume composition of claim 1, wherein the sufficient amount of the second perfume accord is from 30% to 70% by weight of the perfume composition.
- 15
10. The perfume composition of claim 5, wherein the sufficient amount of the third perfume accord is from 30% to 70% by weight of the perfume composition.
11. The perfume composition of claim 1, wherein the first perfume accord and the
- 20
- second perfume accord are present in the perfume composition in a weight ratio ranging from 3:1 to 1:3.
12. The perfume composition of claim 1, wherein the first perfume accord and the
- 25
- second perfume accord are present in the perfume composition at a weight ratio of 1:1.
13. The perfume composition of claim 5, wherein the first perfume accord the second perfume accord, and the third perfume accord are present in the perfume composition at a weight ratio of 1:1:1.
- 30

14. The perfume composition of claim 1, wherein the perception of the second olfactive note after the first olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

5

15. The perfume composition of claim 5, wherein the perception of the first olfactive note, the second olfactive note, and the third olfactive note is at a level sufficient to reduce, prevent, or suppress a reduced perception of the perfume composition by the subject over time.

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Figure 1

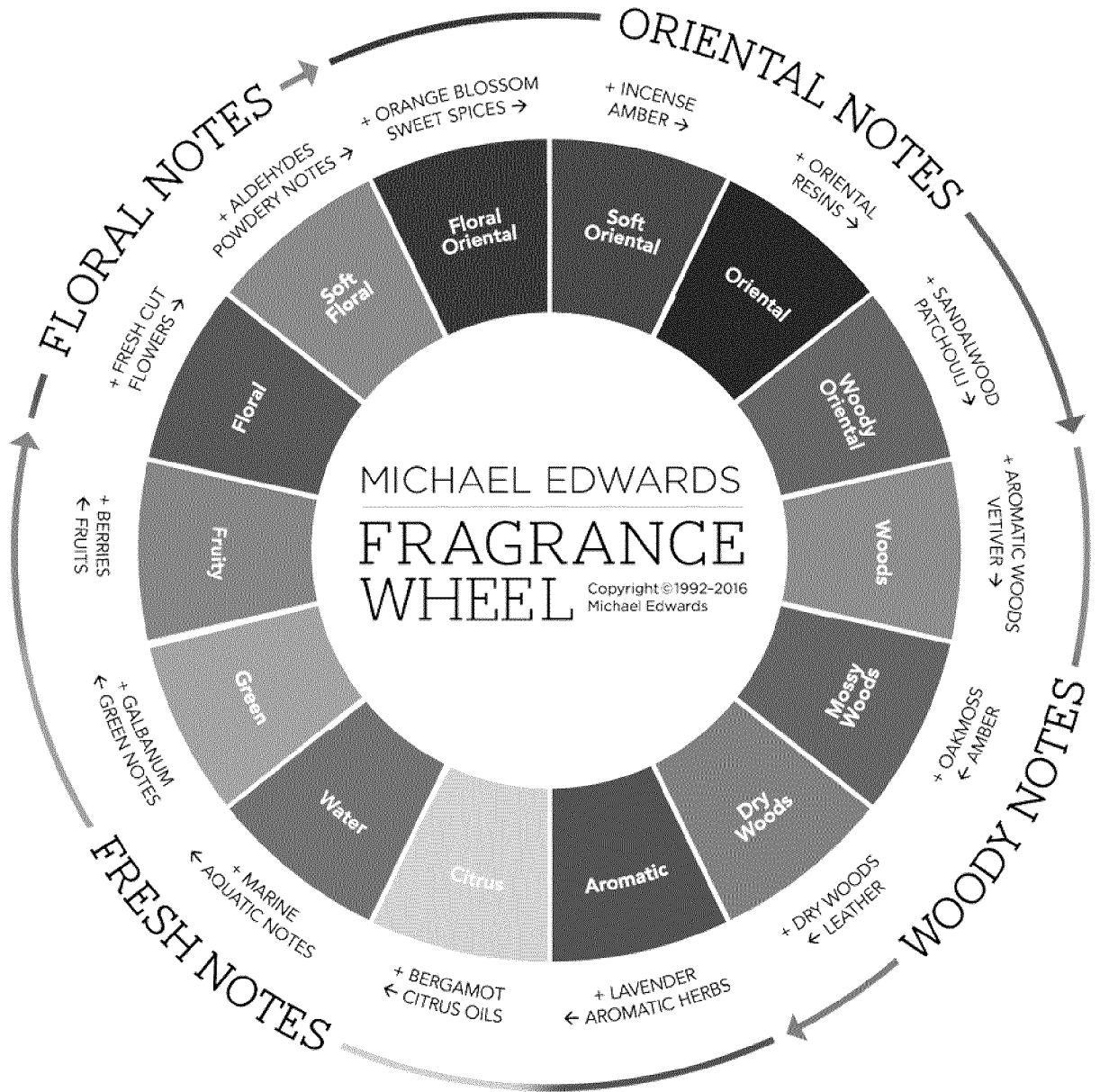


Figure 2

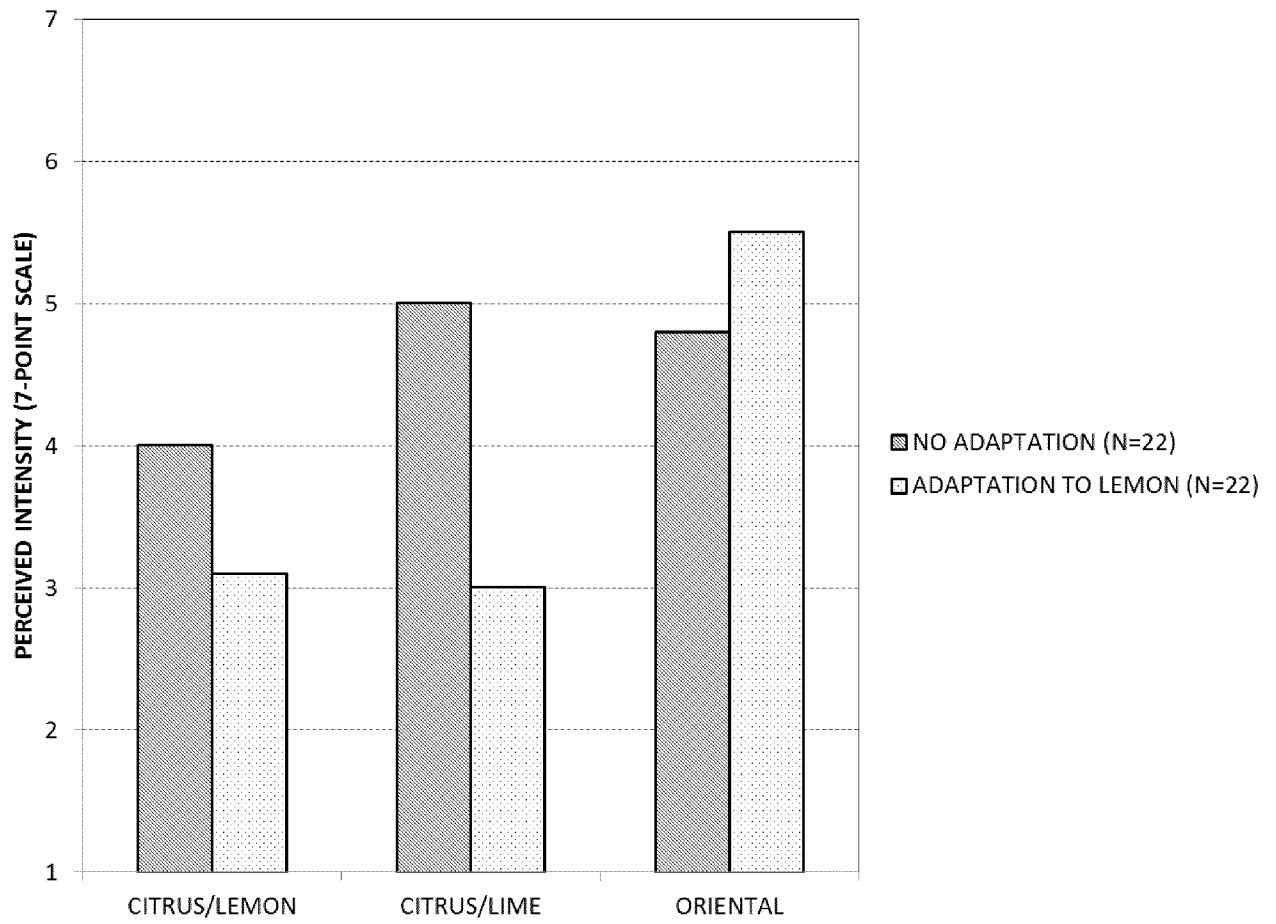
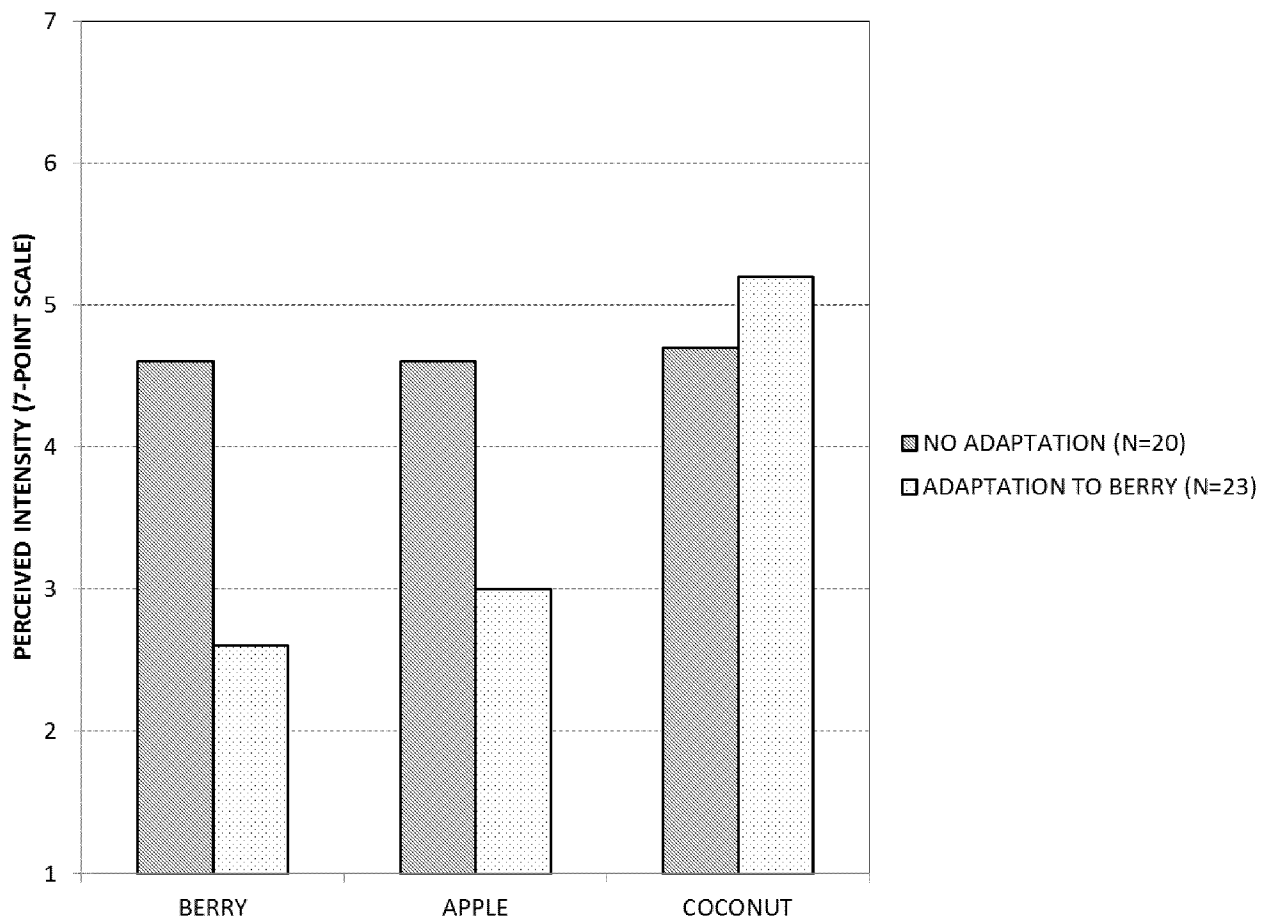
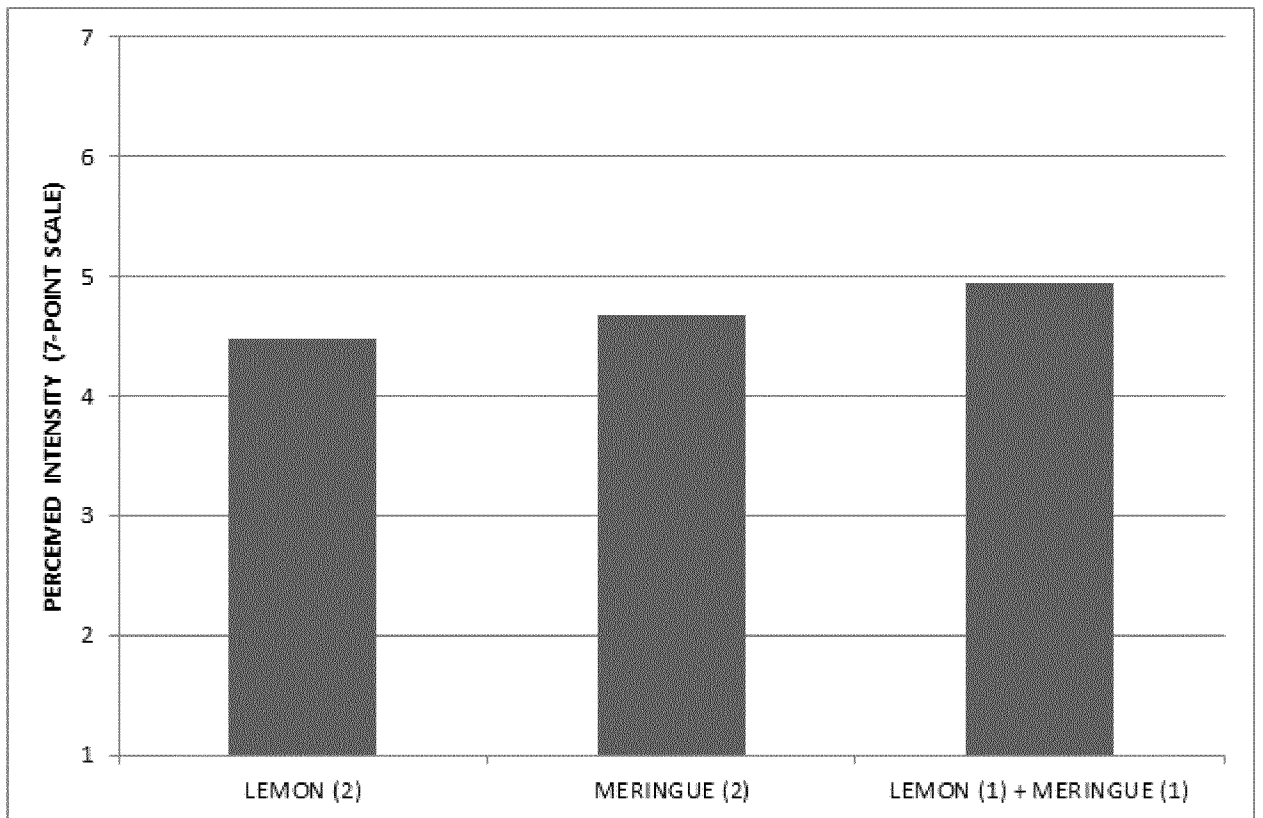


Figure 3



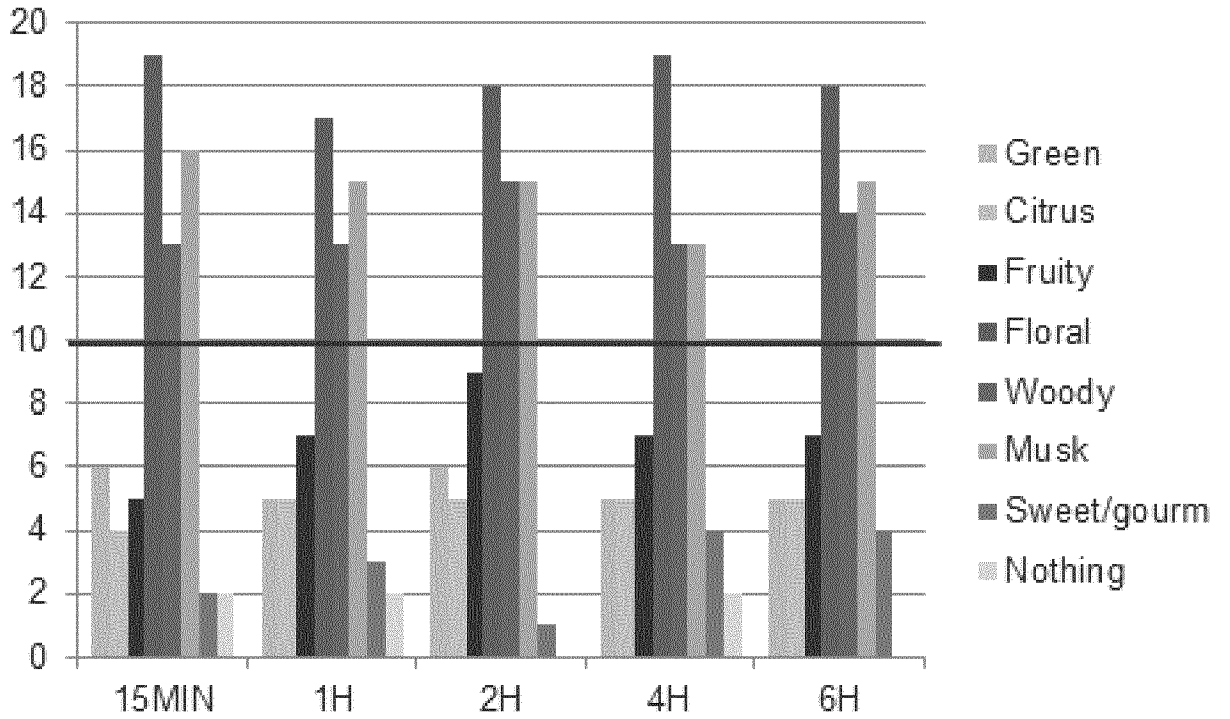
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Figure 4



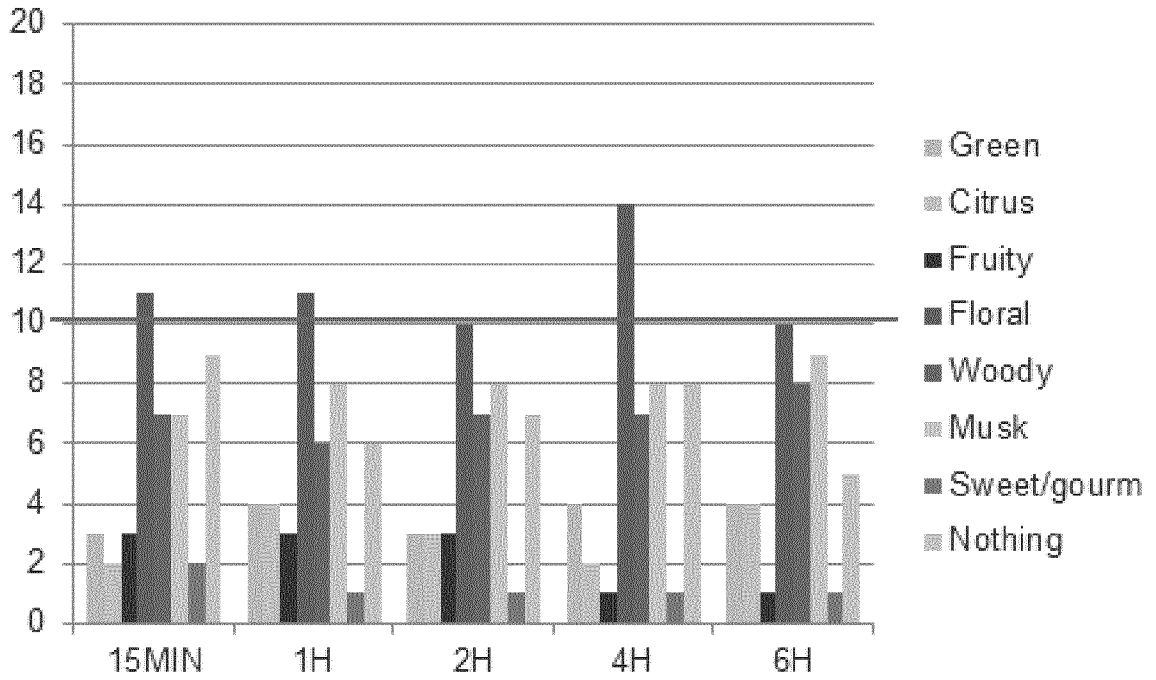
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Figure 5



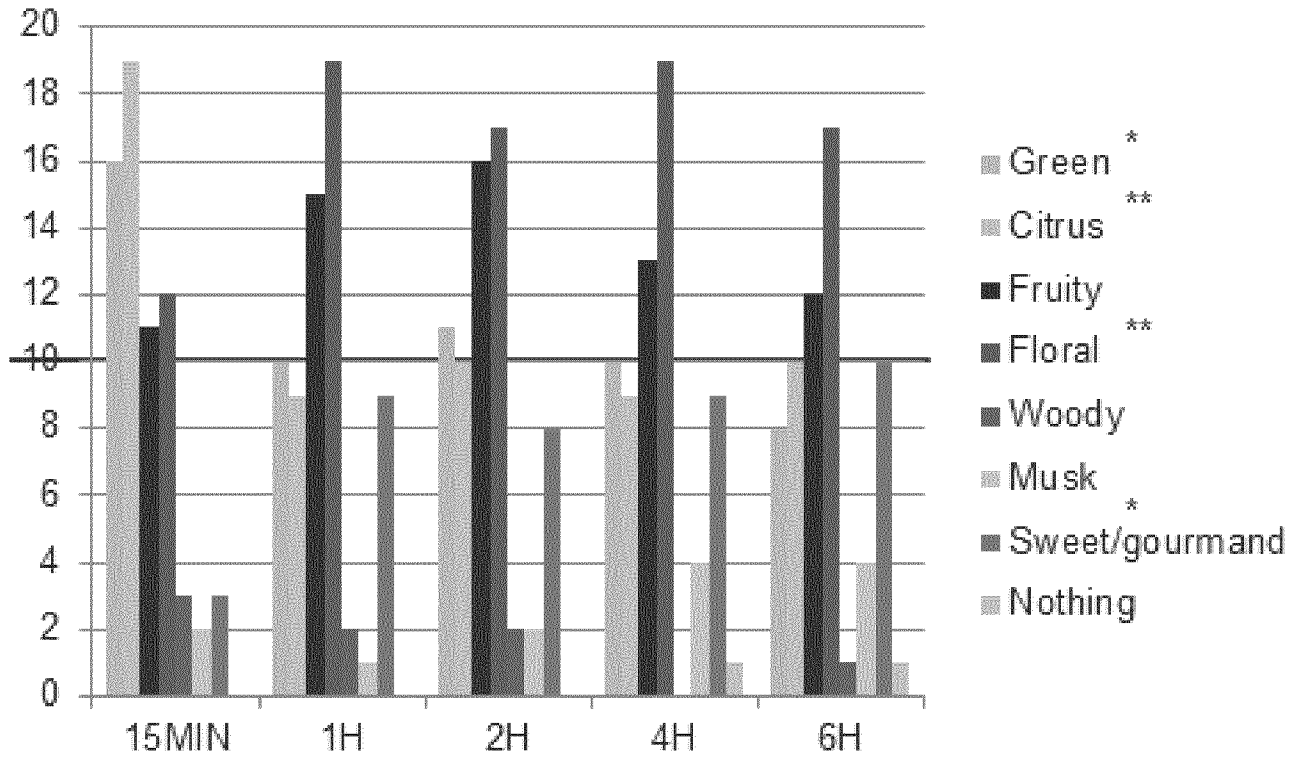
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Figure 6



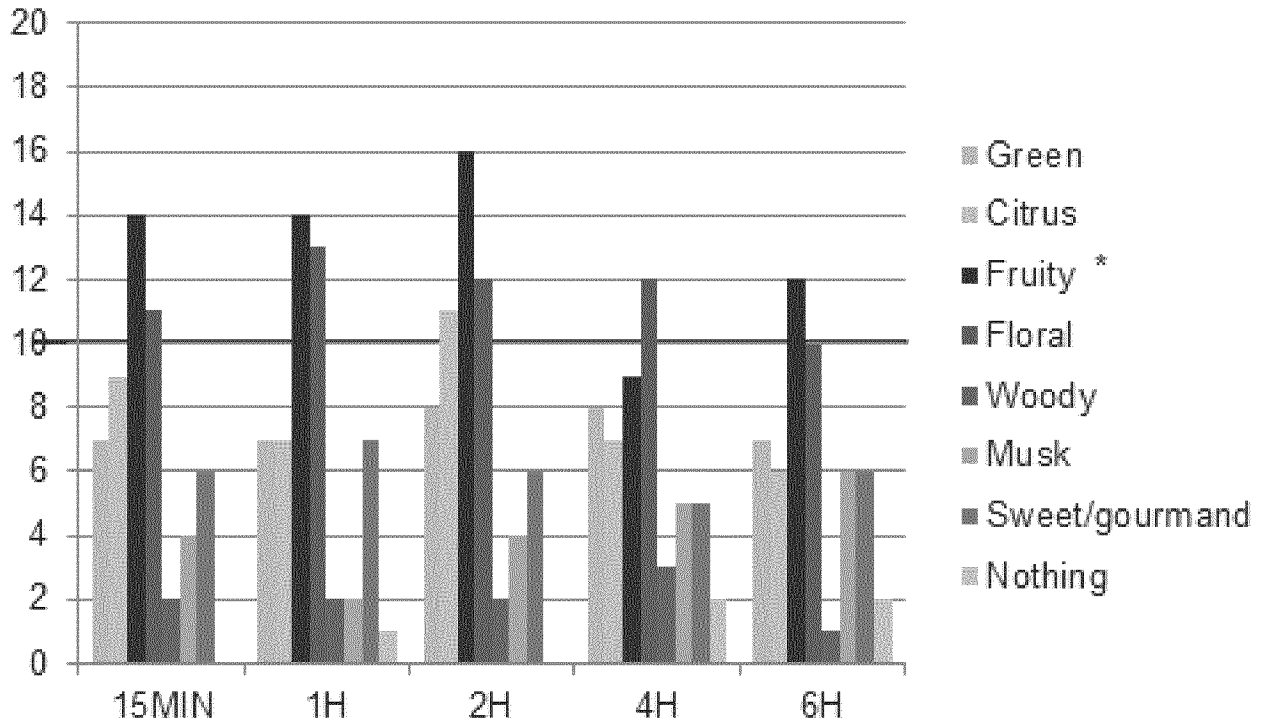
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Figure 7



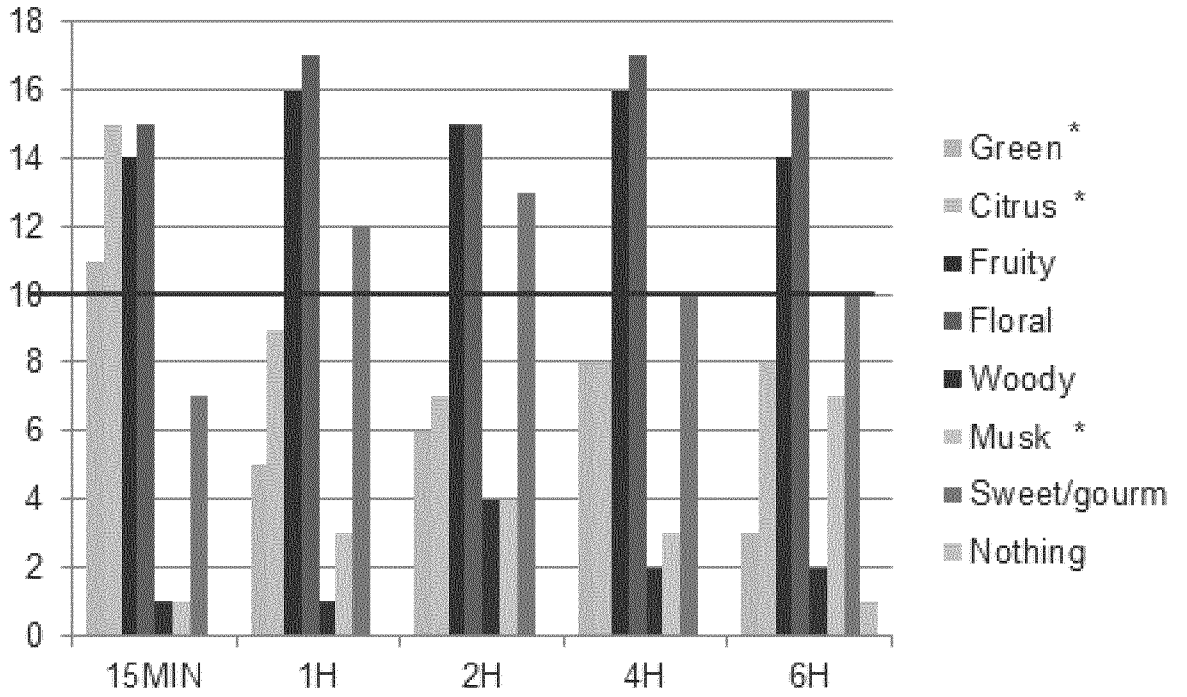
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Figure 8



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Figure 9



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Figure 10

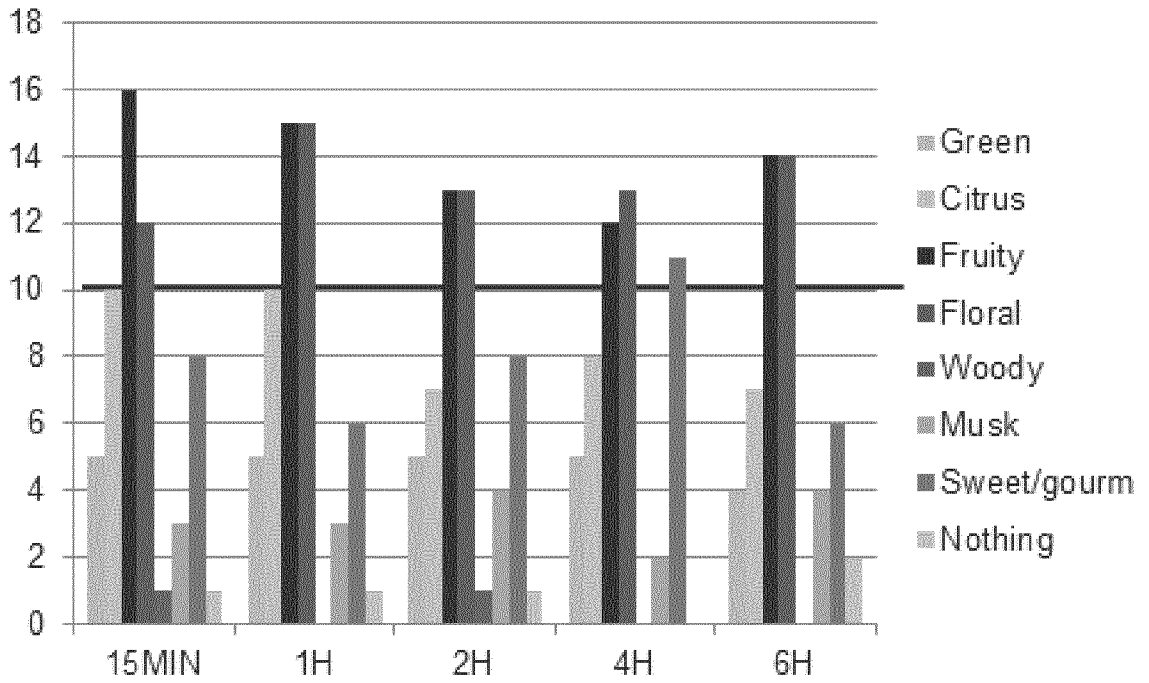
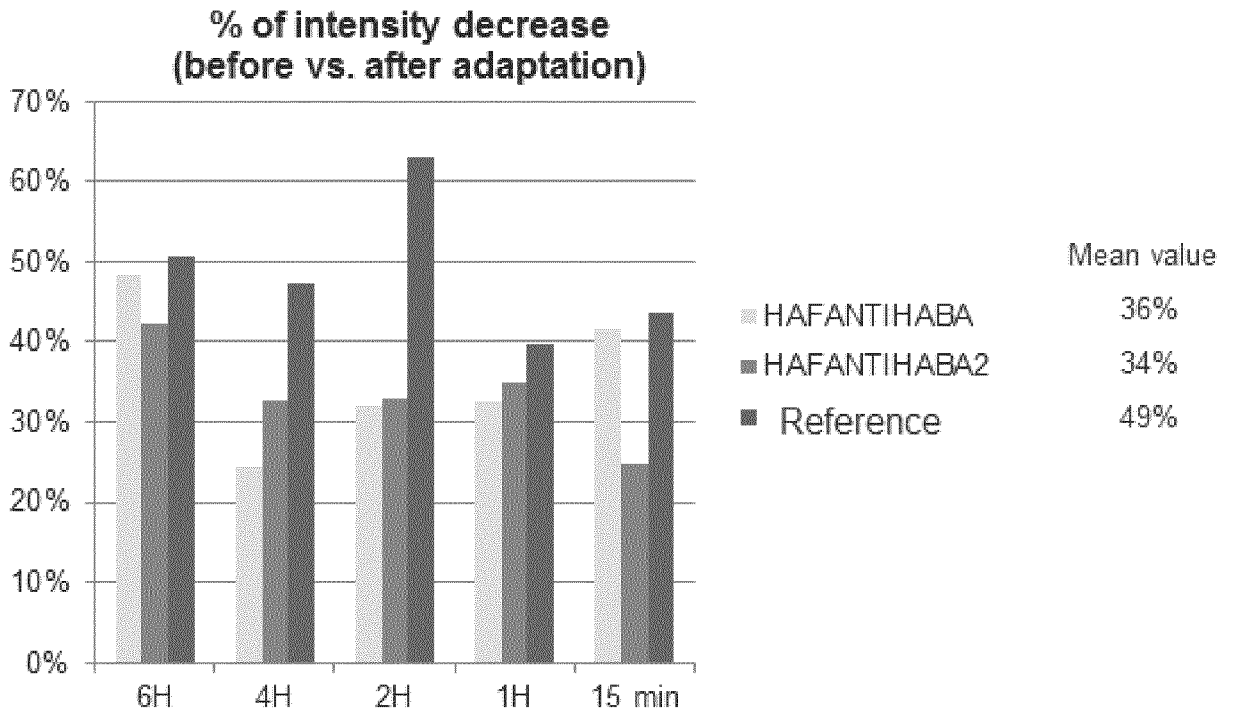


Figure 11



INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2017/066264

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61L9/01 A61Q13/00
 ADD. A61L9/12 A61L9/03 C11D3/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 A61L A61Q C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 2 810 663 A1 (RECKITT BENCKISER BRANDS LTD [GB]) 10 December 2014 (2014-12-10) claims; examples	1,5, 8-13,15
X	US 2015/164764 A1 (BONNET CHRISTELLE MARIE SANDRINE [FR] ET AL) 18 June 2015 (2015-06-18) claims; examples; tables paragraphs [0001] - [0005], [0045]	1-15
X	JP 2003 190264 A (KAWASAKI KIYOMITSU) 8 July 2003 (2003-07-08) abstract; claims	1-15
X,P	EP 3 103 523 A1 (PROCTER & GAMBLE [US]) 14 December 2016 (2016-12-14) claims; examples paragraph [0001]	1-11,14, 15

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search

Date of mailing of the international search report

20 September 2017

19/10/2017

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2017/066264

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