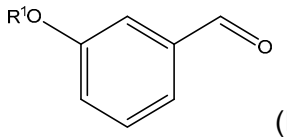
Claims

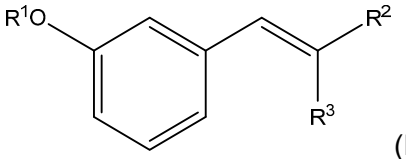
1. The use as fragrance of a compound of formula (I)



(I)

wherein R^1 is selected from linear or branched C_3-, C_4- and C_5- alkyl and C_3-, C_4- and C_5- alkenyl.

2. The use as fragrance of a compound according to claim 1, obtained by spontaneous air oxidation of a compound of formula (II)



(II)

wherein

R^1 selected from linear or branched C_3-, C_4- and C_5- alkyl and C_3-, C_4- and C_5- alkenyl;

R^2 is selected from the group consisting of

$C_4 – C_{14}$ alkyl; $C_4 – C_{14}$ alkyl substituted with one –OH group and/or up to two ether;

$C_4 – C_{14}$ alkenyl; $C_4 – C_{14}$ alkenyl substituted with one –OH group or an ether group;

$C_5 – C_6$ cycloalkyl;$C_5 – C_8$ cycloalkyl substituted with 1, 2, or 3 groups selected from $C_1 – C_6$ alkyl and $C_2 – C_4$ alkylidene;

$C_5 – C_8$ cycloalkenyl; C_5- C_8 cycloalkenyl wherein the cycloalkenyl-ring is substituted with 1, 2, or 3 groups selected from $C_1 – C_4$ alkyl, $C_2 – C_4$ alkylidene, and C_3-C_5 cycloalkyl;

~~(~~$C_1 – C_3$~~)~~alkyl~~(~~$C_5 – C_6$~~)~~cycloalkyl wherein the cycloalkyl-ring is optionally substituted with one group selected from –OH group and =O group, and/or one or two ether group(s), and/or up to four C_1-C_5 alkyl groups;

~~(~~$C_1 – C_4$~~)~~alkyl-~~(~~$C_5 – C_6$~~)~~cycloalkenyl wherein the cycloalkenyl-ring is optionally substituted with one –OH group, and/or one or two ether group(s), and/or up to four C_1-C_5 alkyl groups;

~~(~~$C_2 – C_3$~~)~~alkenyl-~~(~~$C_5 – C_6$~~)~~cycloalkenyl wherein the cycloalkenyl-ring is optionally substituted with one –OH group, and/or one or two ether group(s), and/or up to four C_1-C_5 alkyl groups;

~~C_6 – C_{14} aryl; C_6 – C_{14} aryl wherein the aryl ring is substituted with up to 3 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and –OR^{11} wherein R^{11} is independently selected from hydrogen and C_1 – C_4 alkyl;~~

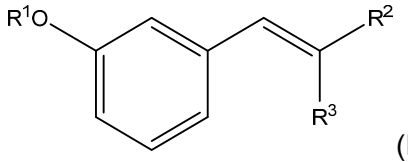
~~(C_1 – C_4)~~alkyl-~~(C_6 – C_{14})~~aryl; ~~(C_1 – C_4)~~alkyl-~~(C_6 – C_{14})~~aryl wherein the aryl-ring is substituted with up to 2 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and –OR^{12} wherein R^{12} is independently selected from hydrogen and C_1 – C_4 alkyl;

~~(C_2 – C_8)~~alkenyl-~~(C_6 – C_{14})~~aryl; ~~(C_2 – C_8)~~alkenyl-~~(C_6 – C_{14})~~aryl wherein the aryl-ring is substituted with up to 2 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and –OR^{13} wherein R^{13} is independently selected from hydrogen and C_1 – C_4 alkyl;

bi-, tri, or tetracyclic hydrocarbon ring comprising C_8 – C_{12} carbon atoms optionally substituted with up to 6 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and –OR^{14} wherein R^{14} is independently selected from hydrogen and C_1 – C_4 alkyl; and

R^3 is selected from hydrogen, C_1 – C_5 alkyl, and C_2 – C_5 alkenyl.

3. Compounds of formula (II)



(II)

wherein

R^1 selected from linear or branched C_3-, C_4- and C_5- alkyl and C_3-, C_4- and C_5- alkenyl;

R^2 is selected from the group consisting of

C_4 – C_{14} alkyl; C_4 – C_{14} alkyl substituted with one –OH group and/or up to two ether;

C_4 – C_{14} alkenyl; C_4 – C_{14} alkenyl substituted with one –OH group or an ether group;

C_5 – C_6 cycloalkyl;C_5 – C_8 cycloalkyl substituted with 1, 2, or 3 groups selected from C_1 – C_6 alkyl and C_2 – C_4 alkylidene;

C_5 – C_8 cycloalkenyl; C_5- C_8 cycloalkenyl wherein the cycloalkenyl-ring is substituted with 1, 2, or 3 groups selected from C_1 – C_4 alkyl, C_2 – C_4 alkylidene, and C_3-C_5 cycloalkyl;

~~(C_1 – C_3)~~alkyl-~~(C_5 – C_6)~~cycloalkyl wherein the cycloalkyl-ring is optionally substituted with one group selected from –OH group and =O group, and/or one or two ether group(s), and/or up to four C_1-C_5 alkyl groups;

(C_1 – C_4)alkyl-(C_5 – C_6)cycloalkenyl wherein the cycloalkenyl-ring is optionally substituted with one –OH group, and/or one or two ether group(s), and/or up to four C_1-C_5 alkyl groups;

(C_2 – C_3)alkenyl-(C_5 – C_6)cycloalkenyl wherein the cycloalkenyl-ring is optionally substituted with one –OH group, and/or one or two ether group(s), and/or up to four C_1-C_5 alkyl groups;

~~C_6 – C_{14} aryl; C_6 – C_{14} aryl wherein the aryl ring is substituted with up to 3 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and OR^{11} wherein R^{11} is independently selected from hydrogen and C_1 – C_4 alkyl;~~

(C_1 – C_4)alkyl-(C_6 – C_{14})aryl; (C_1 – C_4)alkyl-(C_6 – C_{14})aryl wherein the aryl-ring is substituted with up to 2 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and – OR^{12} wherein R^{12} is independently selected from hydrogen and C_1 – C_4 alkyl;

(C_2 – C_8)alkenyl-(C_6 – C_{14})aryl; (C_2 – C_8)alkenyl-(C_6 – C_{14})aryl wherein the aryl-ring is substituted with up to 2 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and – OR^{13} wherein R^{13} is independently selected from hydrogen and C_1 – C_4 alkyl;

bi-, tri, or tetracyclic hydrocarbon ring comprising C_8 – C_{12} carbon atoms optionally substituted with up to 6 groups selected from C_1 – C_4 alkyl, – O – CH_2 – O –, and –OR^{14} wherein R^{14} is independently selected from hydrogen and C_1 – C_4 alkyl; and

R^3 is selected from hydrogen, C_1 – C_5 alkyl, and C_2 – C_5 alkenyl.

4. A compound according to claim 3 selected from

1-butoxy-3-((1E,4Z)-hepta-1,4-dien-1-yl)benzene;

1-butoxy-3-((1E,7Z)-deca-1,7-dien-1-yl)benzene;

1-(4-(3-butoxyphenyl)but-3-en-1-yl)-4-isobutyl-2-methylbenzene;

1-(4-(3-butoxyphenyl)but-3-en-1-yl)-2-isobutyl-4-methylbenzene;

1-(sec-butoxy)-3-((1E,4Z)-hepta-1,4-dien-1-yl)benzene;

1-((1E,4Z)-hepta-1,4-dien-1-yl)-3-(pentyloxy)benzene;

1-((1E,4Z)-hepta-1,4-dien-1-yl)-3-((2-methylallyl)oxy)benzene;

1-((1E,4Z)-hepta-1,4-dien-1-yl)-3-isopropoxybenzene;

1-butoxy-3-(4-(4-(tert-butyl)phenyl)but-1-en-1-yl)benzene;

1-butoxy-3-(4-(4-(tert-butyl)phenyl)-3-methylbut-1-en-1-yl)benzene;

1-butoxy-3-(4-(3-isopropylphenyl)pent-1-en-1-yl)benzene;

11-(3-butoxyphenyl)-2,6-dimethylundeca-6,10-dien-2-ol;

1-butoxy-3-(3-methyldodec-1-en-1-yl)benzene;
5-(4-(3-butoxyphenyl)-2-methylbut-3-en-1-yl)benzo[d][1,3]dioxole;
1-butoxy-3-(tetradeca-1,3-dien-1-yl)benzene;
1-butoxy-3-(3-phenylprop-1-en-1-yl)benzene;
1-butoxy-3-((5E)-undeca-1,5-dien-1-yl)benzene;
5-(5-(3-butoxyphenyl)pent-4-en-1-ylidene)octahydro-1H-4,7-methanoindene;
1-butoxy-3-(4-(4-ethylphenyl)-3,3-dimethylbut-1-en-1-yl)benzene;
1-butoxy-3-(7-methoxy-3,7-dimethylnon-1-en-1-yl)benzene; and
1-butoxy-3-(4-(4-isobutylphenyl)but-1-en-1-yl)benzene.

5. A method of fragrancing a consumer product, comprising the addition to a consumer product base a compound of formula (I) as defined in claim 1, or precursor thereof.

6. A method according to claim 5, characterized in that the precursor of the compound of formula (I) is a compound of formula (II) as defined in claim 3.

7. A method according to claim 5, characterized in that the compound of formula (I) is generated by spontaneous air oxidation of a compound of formula (II) as defined in claim 3 when exposed to oxygen.

8. A consumer product comprising a compound of formula (I) as defined in claim 1, or a precursor thereof, preferably a compound of formula (II) as defined in claim 2 or claim 3, and a consumer product base.

9. A consumer product according to claim 8 wherein the consumer product is selected from home care products, personal care products and cleaning products.