Table S1 Top three volatiles of individual chemical classes of CREO, LPEO, and JFEO

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | CREO | | | LPEO | | | JFEO | | |
| volatiles | Relative content (%) | | volatiles | Relative content (%) | | volatiles | Relative content (%) | |
| Terpenes | 1 | L-α-terpineol | 16.21±3.24a | 34.19 | (-)-Bornyl acetate | 20.23±4.57b | 41.06 | (-)-Bornyl acetate | 28.40±3.42a | 46.74 |
| 2 | 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)naphthalene | 11.68±7.47a | 3,6,6-trimethyl-bicyclo[3.1.1]hept-2-ene | 13.68±13.62a | β-oplopenone | 11.78±2.36a |
| 3 | (+)-γ-Cadinene | 6.30±1.61a | 2-isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5,6,8a-octahydronaphthalene | 7.15±8.71a | (1S-cis)-1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene | 6.56±2.79a |
| Esters | 1 | 2-methyl-2-phenylethyl-butyrate | 2.75±8.48a | 4.67 | Geranyl acetate | 1.23±5.42a | 1.78 | 3-phenylallyl acetate | 0.42±0.84a | 0.90 |
| 2 | Geranyl acetate | 1.58±4.20b | [3S-(3.alpha.,5.alpha.,8.alpha.)]-5-azulenemethanol, 1,2,3,4,5,6,7,8-octahydro-.alpha.,.alpha.,3,8-tetramethyl-, acetate | 0.28±11.35a | Ethyl isopropoxycarbamate | 0.33±6.63 a |
| 3 | [3S-(3.alpha.,5.alpha.,8.alpha.)]-5-azulenemethanol, 1,2,3,4,5,6,7,8-octahydro-.alpha.,.alpha.,3,8-tetramethyl-, acetate | 0.34±8.17b | Ethyl isopropoxycarbamate | 0.27±7.60b | Heptyl heptanate | 0.15±2.70a |
| Ketones | 1 | 3-octen-2-one | 2.28±12.95a | 2.65 | 4,7,7-trimethylbicyclo[4.1.0]hept-3-en-2-one | 1.05±19.31a | 2.53 | 6-methyl-5-hepten-2-one | 0.17±2.87b | 0.36 |
| 2 | 3-methyl-2-cyclohexen-1-one | 0.23±2.94b | Acetophenone | 0.93±3.20a | 1-(3-methylphenyl)-ethanone | 0.10±1.76a |
| 3 | 1-(3-methylphenyl)-ethanone | 0.14±4.98a | 6-methyl-5-hepten-2-one | 0.55±4.09a | 3-methyl-2-cyclohexen-1-one | 0.09±3.81a |
| Heterocyclic compounds | 1 | Ethyl 2-(5-methyl-5-vinyltetrahydrofuran-2-yl)propan-2-yl carbonate | 1.09±5.01a | 1.69 | 2,2'-isopropylidenebis(5-methylfuran) | 6.44±6.75a | 6.95 | 2,2'-isopropylidenebis(5-methylfuran) | 0.24±2.62b | 0.35 |
| 2 | 2,2'-isopropylidenebis(5-methylfuran) | 0.53±6.28b | Dill ether | 0.38±4.86a | 2,5-dimethylfuran-3-thiol | 0.07±5.05a |
| 3 | 2-ethenyltetrahydro-2,6,6-trimethyl-2h-pyran | 0.07±5.49a | 4-(2-hydroxy-5-methoxyphenyl)-pyrimidine | 0.13±4.78a | 3,5-dimethyl-1H-pyrazole-1-carboximidamide | 0.04±2.70a |
| Aldehydes | 1 | α-Methyl-4-(2-methylpropyl)-benzeneacetaldehyde | 2.07±6.72b | 2.57 | α-Methyl-4-(2-methylpropyl)-benzeneacetaldehyde | 0.95±9.15b | 1.71 | α-Methyl-4-(2-methylpropyl)-benzeneacetaldehyde | 1.02±1.47a | 2.04 |
| 2 | 4-isopropylcyclohexa-1,3-dienecarbaldehyde | 0.25±1.63b | Isoneral | 0.68±2.90a | 4-isopropylcyclohexa-1,3-dienecarbaldehyde | 0.95±2.14a |
| 3 | Isoneral | 0.24±9.98b |  | 4-isopropylcyclohexa-1,3-dienecarbaldehyde | 0.08±3.90b |  | Piperonal | 0.07±3.11a |  |
| Aromatics | 1 | 1-methyl-3 - (1-methylethyl) - benzene | 2.47±13.76b | 3.44 | 1-methyl-3 - (1-methylethyl) - benzene | 4.56±15.52b | 6.01 | 1-methyl-3 - (1-methylethyl) - benzene | 9.13±6.41a | 9.9 |
| 2 | 1,2-dimethoxy-4 - (1-propenyl) - benzene | 0.56±7.07a | 1-ethenyl-3,5-dimethyl-benzene | 1.43±3.07a | 1-ethenyl-3,5-dimethyl-benzene | 0.73±9.39a |
| 3 | 1-ethenyl-3,5-dimethyl-benzene | 0.41±6.41b | 1,2-dimethoxy-4 - (1-propenyl) - benzene | 0.20±6.38a | 1,2,2-dimethylnaphthalene | 0.04±1.31a |
| Alcohols | 1 | tau-Muurolol | 0.78±9.47b | 0.80 | α-methyl-α-(1-methyl-2-propenyl)-benzenemethanol | 0.36±3.43a | 0.80 | tau-Muurolol | 0.85±0.92a | 0.91 |
| 2 | p-Cymen-7-ol | 0.02±1.99b | tau-Muurolol | 0.25±14.99b | cis-1-methyl-4-(1-methylethyl)-,2-cyclohexen-1-ol | 0.06±2.82a |
| 3 | — | — | p-Cymen-7-ol | 0.19±3.08a | p-Cymen-7-ol | 0.001±7.44b |
| Acids | 1 | 3-hydroxy-3-methyl-butanoic acid | 0.07±10.38a | 0.07 | 3-hydroxy-3-methyl-butanoic acid | 0.02±3.61a | 0.02 | Palmitoleic acid | 0.01±1.95 | 0.02 |
| 2 | (1R-trans)-2,2-dimethyl-3-(2-methyl-1-propenyl)-cyclopropanecarboxylic acid | 0.001±8.76 | — | — | 3-hydroxy-3-methyl-butanoic acid | 0.01±5.87a |
| 3 | — | — | — | — | — | — |
| Others | 1 | Propanediamide | 1.68±8.43a | 2.44 | Isogeranial | 1.38±3.87a | 2.31 | 2,4, 6-tris (1-methylethyl) phenol | 0.16±3.58a | 0.36 |
| 2 | Z. Z, Z-1,5,9,9-tetramethyl-1,4,7, - cycloundecatriene | 0.48±7.40b | Z. Z, Z-1,5,9,9-tetramethyl-1,4,7, - cycloundecatriene | 0.82±11.27a | (1-nitropropyl) -benzene | 0.13±5.53a |
| 3 | Isogeranial | 0.28±11.9a | Methacrylamide | 0.11±7.79a | Z. Z, Z-1,5,9,9-tetramethyl-1,4,7, - cycloundecatriene | 0.07±2.19b |

EO, essential oil; CREO, LPEO, and JFEO, EOs extracted from leaves of *Cinnamomum reticulatum*, *Leptospermum petersonii,* and *Juniperus formosana*, respectively. ✷Values are means ± standard deviation (SD) of three replicates (n = 3). Different letters show statistically significant differences among three samples at *P* < 0.05. ❊Total content is the sum of the relative contents of the five highest compounds in each of the three essential oils.

Table S2 The volatiles from three essential oil of *C. Reticulatum, L. petersonii , J. formosana*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Classes | Compounds | *RT* | *RI* | *CREO* | *LPEO* | *JFEO* |
| Terpenes | (-)-bornyl acetate | 19.92 | 1298.06 | 1.36±8.98 c | 20.23±4.57b | 28.40±3.42a |
| L-α-terpineol | 17.23 | 1202.94 | 16.21±3.24a | 1.22±3.62b | 0.35±1.48b |
| α-thujene | 8.92 | 925.42 | 0.28±8.50c | 0.47±8.89b | 0.60±5.71a |
| Sabinene | 10.52 | 979.56 | 0.37±6.90b | 1.92±9.55a | 0.57±3.79a |
| Eucalyptol | 12.24 | 1036.51 | 5.29±14.04a | 0.08±5.28b | 0.04±6.14b |
| 3-carene | 12.56 | 1047.11 | 1.99±12.22a | 0.41±2.15a | 0.13±8.18a |
| γ-Terpinene | 13.04 | 1062.58 | 1.19±15.66b | 0.98±16.70b | 2.50±9.32a |
| Carveol | 15.52 | 1145.24 | — | 0.032±7.07a | 0.02±2.27a |
| Endo-borneol | 16.64 | 1182.63 | 1.01±9.83c | 0.46±3.88b | 0.53±2.24a |
| (-)-β-bourbonene | 22.4 | 1390.52 | — | 0.20±5.78a | 0.17±2.40a |
| [1R-(1.alpha.,7.beta.,8a.alpha.)]-1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-naphthalene | 23.41 | 1430.08 | — | 6.18±5.86a | 0.03±2.49a |
| (+)-γ-Cadinene | 25.64 | 1519.84 | 6.30±1.61a | 0.04±1.82c | 3.38±3.63b |
| (1S,2S,4R)-(-)-alpha,alpha-dimethyl-1-vinyl-o-menth-8-ene-4-methanol | 26.46 | 1554.01 | 0.18±6.61a | — | 0.45±1.18a |
| d-nerolidol | 26.7 | 1564.16 | 0.26±8.13a | 0.02±8.74b | 0.03±5.19a |
| Rutineol | 27.18 | 1584.57 | 0.25±4.94b | 0.22±5.76a | 0.10±2.37a |
| 2 - [((2R, 4As) - 4A, 8-dimethyl-1,2,3,4,4a, 5,6,7-octahydronaphthalene-2-yl] propyl-2-ol | 28.41 | 1637.97 | 0.13±9.56b | 0.02±8.17b | 0.09±1.73a |
| α-Phellandrene | 11.35 | 1007.32 | 0.42±10.20b | 0.83±5.40a | 0.54±4.96a |
| D-limonene | 12.14 | 1033.14 | 0.05±12.21b | 1.38±7.63b | 5.54±9.23a |
| Cubenene | 26.06 | 1537.61 | 0.12±7.42a | — | 0.21±0.86a |
| (1S-cis)-1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene | 25.77 | 1525.29 | 4.93±2.16b | 0.26±9.32b | 6.56±2.79a |
| 1,2,3,4-Tetrahydro-1,6-dimethyl-4-(1-methylethyl)naphthalene | 25.84 | 1528.37 | 11.68±7.47a | 0.09±5.81b | 1.65±2.53b |
| Caryophyllene oxide | 27.29 | 1589.26 | 0.04±5.49b | 0.23±5.71a | 0.04±3.65b |
| α-Calacorene | 26.29 | 1547.08 | 3.49±7.74b | 0.05±9.76c | 1.16±1.42a |
| γ-Selinene | 25.09 | 1496.87 | 0.34±6.70b | 2.46±8.82a | 0.06±3.39b |
| Pinocarvone | 11.49 | 1011.91 | 0.06±4.43 | — | — |
| β-Elemen | 22.3 | 1387.02 | — | 0.21±5.96a | 0.05±2.73a |
| (+)-epi-bicyclosesquiphellandrene | 23.56 | 1435.95 | 0.01±2.47b | 0.07±9.06b | 0.12±1.12a |
| Bicyclosesquiphellandrene | 24.84 | 1486.94 | — | — | 0.22±3.29 |
| 2,2-dimethyl-3-methylene-,(1S)-bicyclo[2.2.1]heptane | 9.62 | 949.36 | 0.13±8.19b | 0.18±12.67b | 0.25±7.87a |
| Salvial-4(14)-en-1-one | 27.51 | 1598.42 | — | — | 0.05±3.02 |
| (4aS-trans)-1,2,3,4,4a,9,10,10a-octahydro-1,1,4a-trimethyl-7-(1-methylethyl)-phenanthrene | 37.09 | 2059.82 | — | — | 0.05±3.53 |
| (4aS,4bR,10aS)-7-isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,4b,5,6,10,10a-decahydrophenanthrene | 37.71 | 2093 | — | — | 0.01±2.36 |
| (1S)-6,6-dimethyl-2-methylene-bicyclo[3.1.1]heptane | 10.84 | 990.6 | 2.68±10.07b | 1.22±6.55b | 1.76±4.27a |
| [1S-(1.alpha.,4a.beta.,8a.alpha.)]-1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-naphthalene | 26.17 | 1542.04 | 0.005±7.66b | 0.03±0.86c | 0.42±2.49a |
| 1,7,7-trimethyl-tricyclic [2.2.1.0 (2,6)] heptane | 8.73 | 919.08 | 0.001±7.51c | 0.20±7.08b | 0.21±6.94a |
| (1S,4S,4aS)-1-Isopropyl-4,7-dimethyl-1,2,3,4,4a,5-hexahydronaphthalene | 21.39 | 1352.67 | 0.52±8.33b | 0.02±9.61c | 0.20±3.11a |
| 4-isopropyl-6-methyl-1-methylene-1,2,3,4-tetrahydronaphthalene | 26.75 | 1566.48 | 0.27±8.71b | 0.02±12.39c | 0.17±2.16a |
| 6-isopropyl-1,4-dimethylnaphthalene | 29.32 | 1678.1 | 3.40±9.70a | 0.03±14.31b | 0.16±1.48b |
| (+)-4-Carene | 11.7 | 1019.01 | 0.61±8.39b | 0.28±17.43b | 2.24±8.42a |
| 2,6-dimethyl-2,4,6-octatriene | 13.81 | 1087.78 | 0.92±10.41b | 0.32±12.12b | 1.85±10.93a |
| (+)-2-bornanone | 15.87 | 1156.94 | — | 0.20±8.24a | 0.13±3.02a |
| (-)-clovene technical | 25.33 | 1506.84 | 2.02±0.32b | 1.69±14.01b | 1.57±3.75a |
| 2-isopropyl-5-methyl-9-methylene-bicyclo[4.4.0]dec-1-ene | 24.76 | 1483.82 | 0.24±7.77a | — | — |
| Epizonarene | 25.87 | 1529.34 | — | 0.25±9.29a | 0.29±3.08a |
| α-Dehydro-ar-himachalene | 26.1 | 1539 | 0.18±3.60a | — | 0.04±1.22a |
| 1,1,7,7a-tetramethyl-1a,2,6,7,7a,7b-hexahydro-1H-cyclopropa[a]naphthalene | 22.94 | 1411.42 | 0.25±8.16a | 0.02±8.76b | 0.01±1.94b |
| [1S-(1.alpha.,4.alpha.,7.alpha.)]-1,2,3,4,5,6,7,8-octahydro-1,4,9,9-tetramethyl-4,7-methanoazulene | 23.12 | 1418.5 | 0.03±1.15b | 0.06±11.71a | 0.02±5.01b |
| α-Corocalene | 25.94 | 1532.55 | — | — | 0.03±1.16 |
| [4aS-(4a.alpha.,5.alpha.,8a.beta.)]- decahydro-1,1,4a-trimethyl-6-methylene-5-(3-methylene-4-pentenyl)-1H-naphtho[2,1-b]pyran | 35.44 | 1972.81 | — | — | 0.06±2.20 |
| [3S-（3.alpha.,4a.alpha.,6a.beta.,10a.alpha.,10b.beta.)] - 3-ethenyldodecahydro-3,4a, 7,7,10a-pentamethyl-1H-naphtho [2,1-b] pyran | 35.99 | 2001 | — | — | 0.01±4.17 |
| 3,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene | 9.29 | 937.98 | 2.06±9.28b | 13.68±13.62a | 3.75±8.40a |
| [2R-(2.alpha.,4a.alpha.,8a.beta.)]-1,2,3,4,4a,5,6,8a-octahydro-.alpha.,.alpha.,4a,8-tetramethyl-2-naphthalenemethanol | 27.01 | 27.01 | 0.07±7.68c | 0.04±6.62a | 0.03±0.89b |
| p-Mentha-1,5,8-triene | 15.37 | 15.37 | — | 0.04±6.59 a | 0.03±6.50a |
| (R)-4-methyl-1-(1-methylethyl)-3-cyclohexen-1-ol | 16.89 | 1191.19 | 2.47±7.40b | 0.54±9.85b | 4.71±0.64a |
| [s-（Z, Z）]- α,α,4,8-tetramethyl-3,7-cyclodecene-1-methanol | 22.01 | 1376.07 | 0.23±7.77a | 0.07±5.19a | 0.02±2.62a |
| (1S,4aR,7R,8aR)-1,4a-dimethyl-7-(prop-1-en-2-yl)decahydronaphthalen-1-ol | 29.09 | 1668.12 | 0.05±7.36b | 0.97±10.34a | 0.37±1.46a |
| 4-methylene -1- (1-methylethyl) -bicyclo [3.1.0] hex-2-ene | 9.71 | 952.12 | 0.03±4.91b | 0.13±7.46a | 0.06±5.99a |
| 2,6-dimethyl-2-trans-6-octadiene | 12.73 | 1052.43 | — | 0.04±5.73a | 0.01±7.22a |
| 1,7,7-trimethylbicyclo[2.2.1]hept-5-en-2-ol | 15.25 | 1135.89 | — | — | 0.01±6.29a |
| 2-isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5,6,8a-octahydronaphthalene | 22.56 | 1396.63 | 0.53±1.46b | 7.15±8.71a | 0.10±2.73b |
| trans-1-methyl-4 - (1-methylethyl) -2-cyclohexene-1-ol | 15.26 | 1136.17 | — | 0.01±0.44 | — |
| 1-methyl-4 - (2-methylepoxyethyl) -7-oxabicyclic [4.1.0] heptane | 21.08 | 1341.31 | — | 0.61±10.45 | — |
| [1aR-(1a.alpha.,3a.alpha.,7b.alpha.)]-1a,2,3,3a,4,5,6,7b-octahydro-1,1,3a,7-tetramethyl-1H-cyclopropa[a]naphthalene | 25.25 | 1503.63 | 1.05±1.05b | 6.07±12.53a | 0.54±2.74b |
| Carvenone | 21.85 | 1370.15 | 0.01±7.97 | — | — |
| β-Oplopenone | 27.88 | 1614.58 | 0.47±9.52b | — | 11.78±2.36a |
| 7-methanoazuleno[5,6-b]oxirene,octahydro-3,6,6,7a-tetramethyl-2H-2a | 27.29 | 1589.21 | 0.05±6.03c | 0.23±5.75a | 0.04±3.03b |
| α-Cuprenene | 25.33 | 1506.73 | 0.06±2.60 b | 3.39±12.17a | 0.12±3.11b |
|  |  |  |  |  |  |  |
| Esters | Isosoybean acetate | 15.15 | 1132.64 | — | 0.03±1.53a | 0.008±5.73a |
| trans-geranic acid methyl ester | 20.68 | 1326.15 | — | 0.13±2.30a | 0.01±5.72a |
| Geranyl acetate | 22.16 | 1381.67 | 1.58±4.20b | 1.23±5.42a | 0.04±2.56c |
| Ethenyl ethanoate | 20.98 | 1337.56 | — | 0.05±2.68a | 0.06±0.82a |
| (E)-methyl cinnamate | 22.4 | 1390.56 | 0.12±1.55a | — | 0.03±1.95a |
| Benzyl benzoate | 31.31 | 1769.74 | — | — | 0.006 |
| (E)-2-hexenyl acetate | 8.11 | 897.8 | 0.01±3.94b | 0.06±2.94a | 0.0004±4.78b |
| 3-phenylallyl acetate | 23.86 | 1448.06 | 0.03±2.16c | 0.19±11.98b | 0.42±0.84a |
| N - (2,3,4-trifluorobenzoyl) - 1-alanine methyl ester | 28.09 | 1623.79 | 0.06±6.41a | — | 0.08±4.30a |
| Heptyl heptanate | 22.71 | 1402.44 | 0.004±14.81b | 0.06±5.82b | 0.15±2.70a |
| Ethyl isopropoxycarbamate | 8.9 | 924.83 | 0.18±8.81b | 0.27±7.60b | 0.33±6.63 a |
| Hept-2-ester benzoate | 23.71 | 1442.13 | 0.31±5.67b | 0.02±8.24c | 0.13±1.60a |
| [3S-(3.alpha.,5.alpha.,8.alpha.)]-5-azulenemethanol, 1,2,3,4,5,6,7,8-octahydro-.alpha.,.alpha.,3,8-tetramethyl-, acetate | 23.79 | 1445.12 | 0.34±8.17b | 0.28±11.35a | 0.02±2.72b |
| [(2Z) -3, 7-dimethyloctyl -2, 6-dienyl] 2-methylpropionate ester | 26.68 | 1563.34 | 0.30±6.22a | 0.12±11.57a | 0.05±1.07a |
| 2-methyl-2-phenylethyl- butyrate | 24.88 | 1488.59 | 2.75±8.48a | — | — |
|  |  |  |  |  |  |  |
| Ketones | 6,10,14-trimethyl-2-pentadecanone | 32.79 | 1840.04 | — | — | 0.002±1.19a |
| 6-methyl-5-Hepten-2-one | 10.6 | 982.44 | 0.04±3.94b | 0.55±4.09a | 0.17±2.87b |
| 3-octen-2-one | 12.24 | 1036.53 | 2.28±12.95a | 0.06±4.63b | 0.004±5.69b |
| Acetophenone | 13.17 | 1066.96 | — | 0.93±3.20a | 0.02±5.96a |
| 1,1',1''-(1,3,5-benzenetriyl)tris-ethanone | 22.97 | 1412.75 | 0.13±6.86a | 0.08±7.49b | 0.08±3.21b |
| 4-(2,6,6-trimethyl-cyclohexa-1,3-dienyl)-pent-3-en-2-one | 29.22 | 1673.97 | — | 0.20±22.11 | — |
| 1-(1-ethyl-3-methyl-1H-pyrazol-4-yl)-ethanone | 17.81 | 1223.40 | — | 0.001±4.14a | 0.03±9.94a |
| 1-(3-methylphenyl)-ethanone | 16.95 | 1193.14 | 0.14±4.98a | — | 0.10±1.76a |
| 3-methyl-2-Cyclohexen-1-one | 13.07 | 1063.62 | 0.23±2.94b | 0.18±4.42a | 0.09±3.81a |
| 4,7,7-trimethylbicyclo[4.1.0]hept-3-en-2-one | 23.22 | 1422.76 | 0.02±8.59b | 1.05±19.31a | 0.006±4.22b |
| 4-hydroxy-2-methylacetophenone | 17.53 | 1213.48 | — | 0.49±2.81 | — |
| 4',6'-dihydroxy-2',3'-dimethylacetophenone | 26 | 1534.86 | — | — | 0.06±0.75 |
|  |  |  |  |  |  |  |
| Heterocyclic compounds | 2-((3,3-dimethyloxiran-2-yl)methyl)-3-methylfuran | 16.34 | 1172.83 | — | 0.05±2.62 | — |
| Dill ether | 15.52 | 1145.14 | — | 0.38±4.86a | 0.02±8.65a |
| 2,5-dimethylfuran-3-thiol | 13.7 | 1084.14 | 0.06±6.28b | 0.11±2.32a | 0.07±5.05a |
| 3,7,7-trimethyl-1-penta-1,3-dienyl-2-oxabicyclo[3.2.0]hept-3-ene | 22.76 | 1404.48 | *—* | 0.03±9.94 | — |
| 2-ethenyltetrahydro-2,6,6-trimethyl-2h-pyran | 10.23 | 969.91 | 0.07±5.49a | 0.01±2.92a | — |
| 3,5-dimethyl-1H-pyrazole-1-carboximidamide, | 17 | 1194.85 | — | 0.03±1.32a | 0.04±2.70a |
| 2,2'-isopropylidenebis(5-methylfuran) | 24.63 | 1478.69 | 0.53±6.28b | 6.44±6.75a | 0.24±2.62b |
| Ethyl 2-(5-methyl-5-vinyltetrahydrofuran-2-yl)propan-2-yl carbonate | 13.37 | 1073.36 | 1.09±5.01a | 0.13±10.04b | 0.01±3.65c |
| 4-(2-hydroxy-5-methoxyphenyl)-pyrimidine | 24.98 | 1492.65 | 0.01±6.35a | 0.13±4.78a | — |
| 4,7-dimethyl-benzofuran | 17.72 | 1220.04 | 0.01±3.97c | 0.01±3.50b | 0.02±2.64a |
| 3,6-dimethyl-4H-furo[3,2-c]pyran-4-one | 18.29 | 1240.32 | — | — | 0.03±3.49 |
|  |  |  |  |  |  |  |
| Aldehydes | 4-isopropylcyclohexa-1,3-dienecarbaldehyde | 20.15 | 1306.3 | 0.25±1.63b | 0.08±3.90b | 0.95±2.14a |
| Isoneral | 16.12 | 1165.38 | 0.24±9.98b | 0.68±2.90a | 0.03±2.15b |
| (Z)-(3,3-dimethylcyclohexylidene)-acetaldehyde | 16.92 | 1192.20 | 0.13±5.34a | — | 0.03±1.65a |
| 7-methyl-3-methylene-6-octenal | 15.63 | 1148.73 | — | 0.07±6.74 a | 0.01±5.85a |
| 5-isopropenyl-2-methylcyclopent-1-enecarboxaldehyde | 17.63 | 1216.77 | — | — | 0.02±9.57 |
| Piperonal | 21.17 | 1344.65 | 0.01±5.23a | — | 0.07±3.11a |
| α-Methyl-4-(2-methylpropyl)-benzeneacetaldehyde | 24.67 | 1480.01 | 2.07±6.72b | 0.95±9.15b | 1.02±1.47a |
|  |  |  |  |  |  |  |
| Aromatics | 1-methyl-3 - (1-methylethyl) - benzene | 11.97 | 1027.86 | 2.47±13.76b | 4.56±15.52b | 9.13±6.41a |
| 1,2-dimethoxy-4 - (1-propenyl) - benzene | 22.69 | 1401.5 | 0.56±7.07a | 0.20±6.38a | 0.003±3.82b |
| 1-ethenyl-3,5-dimethyl-Benzene | 13.94 | 1092 | 0.41±6.41b | 1.43±3.07a | 0.73±9.39a |
| 1-methoxy-4-methyl-2-(1-methylethyl)-benzene | 18.03 | 1231.06 | — | — | 0.02±2.33 |
| 1,2,2-dimethylnaphthalene | 23.44 | 1431.45 | 0.06±4.91b | 0.02±10.32b | 0.04±1.31a |
| 1, 4-dimethoxy-2-methyl-5-isopropyl - benzene | 23.02 | 1414.57 | 0.004±2.83a | — | 0.03±2.88a |
| tert-Butylbenzene | 13.57 | 1080.14 | 0.11±4.00 | — | — |
|  |  |  |  |  |  |  |
| Alcohols | p-Cymen-7-ol | 13.46 | 1076.54 | 0.02±1.99b | 0.19±3.08a | 0.001±7.44b |
| tau-Muurolol | 29 | 1663.9 | 0.78±9.47b | 0.25±14.99b | 0.85±0.92a |
| cis-1-methyl-4-(1-methylethyl)-,2-cyclohexen-1-ol | 15.69 | 1150.88 | — | 0.05±5.40a | 0.06±2.82a |
| α-Methyl-α-(1-methyl-2-propenyl)-benzenemethanol | 16.13 | 1165.74 | — | 0.36±3.43a | — |
|  |  |  |  |  |  |  |
| Acids | Palmitoleic acid | 34.67 | 1933.3 | — | — | 0.01±1.95 |
| 3-hydroxy-3-methyl-butanoic acid | 12.36 | 1040.45 | 0.07±10.38a | 0.02±3.61a | 0.01±5.87a |
| (1R-trans)-2,2-dimethyl-3-(2-methyl-1-propenyl)-cyclopropanecarboxylic acid | 21.84 | 1369.54 | 0.001±8.76 | — | — |
|  |  |  |  |  |  |  |
| Others | Z. Z, Z-1,5,9,9-tetramethyl-1,4,7, - cycloundecatriene | 24.23 | 1462.87 | 0.48±7.40b | 0.82±11.27a | 0.07±2.19b |
| 2,6,10-trimethyltridecane | 24.2 | 1461.47 | — | — | 0.003 |
| Propanediamide | 16.53 | 1178.95 | 1.68±8.43a | 0.08±1.45a | — |
| Isogeranial | 16.77 | 1187.29 | 0.28±11.9a | 1.38±3.87a | — |
| Methacrylamide | 7.6 | 877.83 | 0.01 | — | — |
| 1-methyl-1,4-cyclohexadiene | 4.77 | 750.55 | 0.001±4.81b | 0.11±7.79a | 0.001±4.67b |
| 3-methyl-4-isopropylpheno | 20.2 | 1308.41 | — | 0.01 | — |
| 2,4, 6-tris (1-methylethyl) phenol | 28.36 | 1635.99 | 0.05±4.88b | 0.02±5.27b | 0.16±3.58a |
| (1-nitropropyl) -benzene | 15.21 | 1134.75 | — | 0.07±7.98a | 0.13±5.53a |

EO, essential oil; CREO, LPEO, and JFEO, EOs extracted from leaves of *Cinnamomum reticulatum*, *Leptospermum petersonii,* and *Juniperus formosana*, respectively. ✷Values are means ± standard deviation (SD) of three replicates (n = 3). Different letters show statistically significant differences among three samples at *P* < 0.05. ❊Total content is the sum of the relative contents of the five highest compounds in each of the three essential oils.