Supporting Information Table 3:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Compound | **Flavour description** | **PEM** | **LEM** | **MEM** | **RI** |
| alcohol |  |  |  |  |  |
| Ethanol | Dry, dust | +\* | +\* | +\* | <500 |
| 2-Methyl-propanol | Penetrating, alcohol,wine-like, plastic, bad | +\* |  |  | 617 |
| 1-Butanol | Banana-like, fruity, green, medicinal | + | +\* | +\* | 652 |
| 3-Methyl-butanol | Fresh cheese, breath-taking, alcoholic, fruity, grainy, floral, malty | +\* | +\* | +\* | 734 |
| 2-Methyl-butanol | Malty | +\* |  |  | 738 |
| 2-Ethyl-hexanol | Animal, Cardboard | + |  |  | 1028 |
| Phenyl methanol (Benzyl alcohol) | Sweet, floral, fruity, phenolic | +\* |  |  | 1041 |
| 1-Octanol | Waxy, green, citrus, floral, sweet, fatty, coconut | +\* |  |  | 1071 |
| 2-Phenyl-ethanol | Floral, rose, dried rose | +\* |  |  | 1121 |
| 2,4-Di-tertbutylphenol | Phenolic | + | +\* | +\* | 1506 |
| acid |  |  |  |  |  |
| Acetic acid | Vinegar, peppers, green, fruity floral, sour | + |  |  | 595 |
| Butanoic acid | Sweaty, butter, cheese, strong, acid, rancid, dirty sock | +\* |  |  | 791 |
| 3-methyl-butanoic acid | Cheesy, sweaty, old socks, rancid, faecal, rotten fruit, goat |  | +\* |  | 829 |
| aldehyde |  |  |  |  |  |
| Acetaldehyde | Yoghurt, green, nutty, pungent, sweet, fruity | +\* | +\* | +\* | <500 |
| 2-Methyl-propanal | Banana, malty, chocolate-like, cocoa | + | +\* |  | 544 |
| 3-Methyl-butanal | Malty, dark chocolate, almond, cocoa, coffee | + | +\* | +\* | 647 |
| Benzaldehyde | Bitter almond, sweet cherry | +\* | +\* | +\* | 972 |
| Benzeneacetaldehyde | Honey-like, rosey, violet-like, hyacinth, green | + |  |  | 1052 |
| Nonanal | Green, citrus, fatty, floral | +\* |  |  | 1106 |
| 3-Ethyl-benzealdehyde | ? | + |  |  | 1173 |
| ketone |  |  |  |  |  |
| 2-Propanone (Acetone) | Earthy, strong fruity, wood pulp, hay | + | +\* | +\* | <500 |
| 2.3-Butanedione (Diacetyl) | Buttery, strong | + | +\* | +\* | 573 |
| Butanone | Buttery, sour milk, etheric | + | +\* | +\* | 580 |
| 3-Hydroxy-butanone (Acetoin) | Buttery, sour milk, caramel | + | +\* | +\* | 714 |
| 2-Heptanone | Blue cheese, spicy, Roquefort | + |  |  | 891 |
| 1-Phenylethanone (Acetophenone) | Almond, musty, glue, orange blossom, sweet | + |  |  | 1075 |
| 2-Nonanone | Malty, fruity, hot milk, smoked cheese | +\* |  |  | 1092 |
| 2-Undecanone | Floral,fruity, green, musty, tallow | + |  |  | 1292 |
| 2-Tridecanone | Fatty, Waxy, mushroom, coconut, earthy | +\* |  |  | 1493 |
| ester |  |  |  |  |  |
| Butyl acetate | Pear, ethereal, green | + | +\* | +\* | 814 |
| 3-Methyl-butyl-acetate (Isoamyl acetate) |  | +\* | +\* | +\* | 876 |
| Butyl propanoate | Earthy, sweet, rose, banana, cherry, rum | +\* | +\* | +\* | 908 |
| Butyl-2-methyl propanoate | Sweet fruity green tropical apple banana | +\* | +\* | +\* | 953 |
| Butyl butanoate | Pineapple, banana, sweet | + | +\* | +\* | 996 |
| Butyl-3-methyl-butanoate (Butyl isovalerate) | Banana, sweet, pear, apple peel | +\* | +\* | +\* | 1046 |
| Butyl hexanoate | Fruity, pineapple, waxy, green, juicy, apple | + |  |  | 1188 |
| aromatic compound |  |  |  |  |  |
| Toluene | Nutty, bitter, almond, plastic | +\* |  |  | 770 |
| Ethyl benzene | Heavy, floral | +\* | + | +\* | 866 |
| 1,3-Xylene | Sweet, aromatic | +\* |  |  | 875 |
| 1,2,4,5-Tetramethylbenzene | Sweet | + |  |  | 1128 |
| 1,3-Bis (1,1-dimethylethyl) benzene | ? | +\* | +\* | +\* | 1254 |
| Hexyl-benzene | ? | + |  |  | 1266 |
| 1-Methylnaphthalene | ? | + |  |  | 1315 |
| sulfur compound |  |  |  |  |  |
| Methanethiol | Rotting cabbage, cheese, vegetative, sulphur | + | +\* | +\* | <500 |
| CDS | Cabbage, sulphur, fruity, burnt | +\* | +\* |  | 528 |
| Dimethyl-disulfide (DMDS) | Cabbage-like, garlic, green, sour, onion | +\* | +\* | +\* | 746 |
| Dimethyl-trisulfide (DMTS) | Vegetable-like, sulphurous, garlic, putrid, cabbage-like | +\* | +\* | +\* | 981 |
| other |  |  |  |  |  |
| Ethyl ether | Sweet, ethereal | + | +\* |  | <500 |