

Exemplary list of compounds, detection limits and matrices.

Further compounds on request.



| No | Substance names | Detection Limit* / ppb n.d. = not determined | Matrix | Mode |
|----|--------------------------------------|---|--------|---------|
| 1 | (-)-Borneol | n.d. | - | pos |
| 2 | (E)-Hex-2-enal | n.d. | - | pos |
| 3 | (E)-Hex-3-enal | n.d. | - | pos |
| 4 | (E,E)-2,4-Heptadienal | n.d. | - | pos |
| 5 | (Z)-3-hexen-1-ol | n.d. | - | pos |
| 6 | (Z)-3-hexenal | n.d. | - | pos |
| 7 | (Z)-3-Hexenol | n.d. | - | pos |
| 8 | (Z)-6-nonenal | n.d. | - | pos |
| 9 | (Z,Z)-2,4-heptadienal | n.d. | - | pos |
| 10 | 1,2,3-Trichlorpropane | 1 ppb | 3 | neg |
| 11 | 1,8-Cineol | n.d. | - | pos |
| 12 | 1-Butanol | n.d. | - | pos |
| 13 | 1-penten-3-one | 1 ppb | - | pos |
| 14 | 2,3-butanedione | n.d. | - | pos |
| 15 | 2,3-diethyl-5-methylpyrazine | 50 | 1 | pos |
| 16 | 2,3-pentanedione | n.d. | - | pos |
| 17 | 2,4-dithiapentane | n.d. | - | pos |
| 18 | 2,5-dimethylpyrazine | n.d. | - | pos |
| 19 | 2,6 Dichlorphenol | 10 | 1 | pos/neg |
| 20 | 2-butanone | 1 | 1 | pos |
| 21 | 2-decanone | 5 | 1 | pos |
| 22 | 2-dodecanone | 5 | 1 | pos |
| 23 | 2-ethyl-3,5-dimethylpyrazine | 50 | 1 | pos |
| 24 | 2-heptanone | 1 | 1 | pos |
| 25 | 2-hexanone | 1 | 1 | pos |
| 26 | 2-Methyl-3-furanthiol | n.d. | - | pos |
| 27 | 2-Methylbutanal | n.d. | - | pos |
| 28 | 2-methylbutanol | 5 | 1 | pos |
| 29 | 2-nonanone | 5 | 1 | pos |
| 30 | 2-octanone | 5 | 1 | pos |
| 31 | 2-pentanone | 1 | 1 | pos |
| 32 | 2-Propanethiol | n.d. | - | pos |
| 33 | 3-Hexanol | n.d. | - | pos |
| 34 | 3-Methylbutanal | n.d. | - | pos |
| 35 | 3-methylbutanol | 5 | 1 | pos |
| 36 | 3-octen-1-one | 5 | 1 | pos |
| 37 | 4-Ethoxy-1,1,1-trifluor-3-buten-2-on | 0.5 ppb | 3 | neg |
| 38 | 4-Methyl-2-hexanone | n.d. | - | pos |
| 39 | Acetaldehyd | 1 | 1 | pos |
| 40 | Acetic acid | 20 | 1 | pos |
| 41 | Acetic acid ethyl ester | n.d. | - | pos |
| 42 | Acetoin | n.d. | - | pos |
| 43 | Acetone | 1 | 1 | pos |
| 44 | Acetophenone | n.d. | - | pos |
| 45 | Acrolein, Propenal | 5 | 3 | pos |
| 46 | Acrylamide | n.d. | - | pos |
| 47 | alpha-Pinene | 100 | 1 | pos |
| 48 | Ammonia | n.d. | - | pos |
| 49 | Benzaldehyde | 10 | 1 | pos |

Matrices:

Tap water = 1 / Ambient Air = 2 / N₂ = 3 / Milli-Q-H₂O = 4 / Ethylene = 5 / Natural Gas = 6 / Biogas = 7
Methane = 8

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| | | | | |
|-----|------------------------------|---------|---|-----|
| 50 | Benzene | 50 | 3 | pos |
| 51 | Benzenemethanethiol | n.d. | - | pos |
| 52 | Benzyl alcohol | n.d. | - | pos |
| 53 | Butanal | 1 | 1 | pos |
| 54 | Butylacetate | 1 | 1 | pos |
| 55 | Butyric acid | 50 | 1 | pos |
| 56 | Camphene | n.n. | - | pos |
| 57 | Carbon disulfide | 200 ppb | 8 | neg |
| 58 | Carbonyl sulfide | 5 | 3 | neg |
| 59 | Carvacrol | n.d. | - | pos |
| 60 | Chlormethan | n.d. | 1 | neg |
| 61 | Chloroform | n.d. | - | neg |
| 62 | cis-4-Heptenal | n.d. | - | pos |
| 63 | cis-Linalool oxide | n.d. | - | pos |
| 64 | cis-Myrtanol | n.d. | - | pos |
| 65 | Citral | n.d. | - | pos |
| 66 | Citronellal | n.d. | - | pos |
| 67 | Cyclohexanone | n.d. | - | pos |
| 68 | Cymene | 50 | 3 | pos |
| 69 | Decamethylcyclopentasiloxane | 2 | 3 | pos |
| 70 | Decamethyltetrasiloxane | 2 | 3 | pos |
| 71 | Decanal | 5 | 1 | pos |
| 72 | Diacetyl | < 20 | 1 | neg |
| 73 | Diallyle disulfide | n.d. | - | neg |
| 74 | Diethylether | 1 | 1 | pos |
| 75 | Dimethyl disulfide | n.d. | - | pos |
| 76 | Dimethylbenzene | 50 | 2 | neg |
| 77 | Dimethylsulfate | 0,5 | 1 | neg |
| 78 | Dimethylsulfide | 50 | 3 | pos |
| 79 | Dipropyl disulfide | n.d. | - | pos |
| 80 | Dodecamethylpentasiloxane | 3 | 3 | pos |
| 81 | Ethanol | 5 | 1 | pos |
| 82 | Ethyl butyrate | n.d. | - | pos |
| 83 | Ethyl heptanoate | n.d. | - | pos |
| 84 | Ethyl hexanoate | n.d. | - | pos |
| 85 | Ethyl mercaptane | 5 | 3 | pos |
| 86 | Ethyl octanoate | n.d. | - | pos |
| 87 | Ethyl propanoate | n.d. | - | pos |
| 88 | Ethyl-2-methylpropanoate | n.d. | - | pos |
| 89 | Ethyl-3-methylbutanoate | 1 | 1 | pos |
| 90 | Ethylacetate | 1 | 1 | pos |
| 91 | Ethylacrylate | 1 | 1 | pos |
| 92 | Ethylbenzene | 50 | 3 | pos |
| 93 | Ethylene glycol | 20 | 1 | pos |
| 94 | Ethylhexanoate | 5 | 1 | pos |
| 95 | Eucalyptol | n.d. | - | pos |
| 96 | Floracetate | n.d. | - | pos |
| 97 | Fluorbenzene | 10 | 3 | neg |
| 98 | Furfural | n.d. | - | pos |
| 99 | Gamma methylionone | n.d. | - | pos |
| 100 | Geraniol | 100 | 1 | pos |

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| | | | | |
|-----|---|---------|---|-----|
| 101 | Guaiacol, Brenzkatechinmonomethylether | 100 | 1 | pos |
| 102 | Heptanal | 5 | 1 | pos |
| 103 | Hexamethylcyclotrisiloxane | 3 | 3 | pos |
| 104 | Hexamethyldisiloxane | 3 | 3 | pos |
| 105 | Hexanal | 1 | 1 | pos |
| 106 | Hexanoic acid | n.d. | - | pos |
| 107 | Hexanoic acid ethyl ester | n.d. | - | pos |
| 108 | Hexyl cinnamic aldehyde | n.d. | - | pos |
| 109 | Hydrogen sulfide | 5 | 3 | neg |
| 110 | i-Propanol | 5 | 1 | pos |
| 111 | Isoamylacetate | 3 | 1 | pos |
| 112 | Isoamylalcohol | n.d. | - | pos |
| 113 | Isobornylacetate | n.d. | - | pos |
| 114 | Isobutanol | n.d. | - | pos |
| 115 | Isobutylacetate | 1 | 1 | pos |
| 116 | Isoprene | 100 | 1 | pos |
| 117 | Iso-Propyl mercaptan | 200 ppb | 8 | neg |
| 118 | Isovaleric acid | 50 | 1 | pos |
| 119 | Limonene | 100 | 1 | pos |
| 120 | Linalool | 100 | 1 | pos |
| 121 | Methanol | 0.2 | 3 | pos |
| 122 | Methyl mercaptane | 5 | 3 | pos |
| 123 | Methyl nonyl acetaldehyde | n.d. | - | pos |
| 124 | Methyl salicylate | | | |
| 125 | Methylacrylate | 1 | 1 | pos |
| 126 | Methyleugenol | n.d. | - | pos |
| 127 | Methylpyrazine | n.d. | - | pos |
| 128 | m-Xylene | 20 | 3 | pos |
| 129 | Myrcene | 100 | 1 | pos |
| 130 | n-butanol | 5 | 1 | pos |
| 131 | n-decanol | 5 | 1 | pos |
| 132 | NDELA, N-Nitrosodiethanolamine | < 40 | 4 | pos |
| 133 | n-Hexyl acetate | n.d. | - | pos |
| 134 | Nitric oxide | 2 | 5 | neg |
| 135 | Nitrogen dioxide | 5 | 3 | neg |
| 136 | n-octanol | 5 | 1 | pos |
| 137 | Nonanal | 5 | 1 | pos |
| 138 | n-pentanol | 5 | 1 | pos |
| 139 | n-Propanol | 5 | 1 | pos |
| 140 | Ocimene | n.d. | - | pos |
| 141 | Oct-1-en-3-ol | n.d. | - | pos |
| 142 | Octamethylcyclotetrasiloxane | 5 | 3 | pos |
| 143 | Octamethyltrisiloxane | 3 | 3 | pos |
| 144 | Octanal | 5 | 1 | pos |
| 145 | o-Xylene | 20 | 3 | pos |
| 146 | Pentan-1-ol | n.d. | - | pos |
| 147 | Pentanal | 1 | 1 | pos |
| 148 | Pentandion | | 1 | neg |
| 149 | Phenol | 50 | 3 | pos |
| 150 | Phenylacetylaldehyde | n.d. | - | pos |
| 151 | p-Menth-1(7)-en-2-one | n.d. | - | pos |

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