

Soupis 200 organických chemických látek zaznamenaných při rozboru kouře ze spaloven v Německu.

| Chemická látka | µg/m ³ |
|--|-------------------|
| 2-Methyloctane | 0.12 |
| 1(3H)-Isobenzofuranone-5-methyl | 0.11 |
| 1-(Chloromethyl)-4-methylbenzene | 0.28 |
| 1,1Biphenyl | 0.64 |
| 1,2,3,5-Tetrachlorobenzene | 0.3 |
| 1,2,3-Trichlorobenzene | 0.07 |
| 1,2,4-Trichlorobenzene | 0.55 |
| 1,2,4-Trimethylbenzene | 1.17 |
| 1,2,5-Trichlorobenzene | 0.12 |
| 1,2-Dichlorobenzene | 0.02 |
| 1,2-Dimethylcyclohexane | 0.03 |
| 1,2-Dimethylcyclopentane | 1 |
| 1,3,5-Trimethylbenzene | 0.34 |
| 1,3-Diethylbenzene | 0.15 |
| 1,3-Dichlorobenzene | 0.21 |
| 1,3-Dimethylcyclopentane | 1 |
| 1,4-Dichlorobenzene | 0.51 |
| 12-Methyltetradecanecarboxylic acid | 2.71 |
| 1-Ethyl-2-methylbenzene | 1.26 |
| 1-Ethyl-4-methylbenzene | 0.22 |
| 1-Methyl-(1-propenyl)benzene | 0.21 |
| 1-Methyl-2-phenylmethylbenzene | 0.68 |
| 1-Methyl-2-propylbenzene | 0.12 |
| 1-Methyl-3-propylbenzene | 0.1 |
| 2-(Hydroxymethyl)benzoic acid | 0.5 |
| 2,2-Dimethyl-3-pentanol | 7 |
| 2,2-Dimethylbiphenyl | 0.78 |
| 2,3,4,6-Tetrachlorophenol | 4.42 |
| 2,3,4-Trichlorophenol | 0.48 |
| 2,3,5-Trichlorophenol | 0.49 |
| 2,3-Dimethylbiphenyl | 1.72 |
| 2,4,6-Trichlorophenol | 9.55 |
| 2,4-Dichloro-6-methylphenol | 0.16 |
| 2,4-Dichlorophenol | 2.39 |
| 2,4-Dimethylbiphenyl | 0.67 |
| 2,4-Di-tertiary-butylphenol | 1.77 |
| 2,6-Dicloro-4-nitrophenol | 0.05 |
| 2,6-Di-tertiary-butyl-p-benzoquinone | 0.2 |
| 2-Bromo-4-chlorophenol | 0.47 |
| 2-Butoxyethanol | 0.23 |
| 2-Ethyl-1,4-dimethylbenzene | 0.1 |
| 2-Ethylbiphenyl | 0.17 |
| 2-Ethyl-naphthalene-1,2,3,4-tetrahydro | 0.08 |
| 2-Furanecarboxaldehyde | 0.18 |
| 2-Hexanone | 1.6 |
| 2-Hydroxy-3,5-dichlorobenzaldehyde | 0.03 |
| 2-Chloro-6-methylphenol | 0.1 |
| 2-Chlorophenol | 0.53 |
| 2-Methylbenzaldehyde | 1.87 |

| Chemická látka | µg/m ³ |
|---|-------------------|
| 2-Methylbiphenyl | 0.2 |
| 2-Methylhexane | 3.6 |
| 2-Methylisopropylbenzene | 2.19 |
| 2-Methylpentane | 3.2 |
| 2-Methylpropyl acetate | 0.23 |
| 2-Nitrostyrene | 0.76 |
| 2-Tertiary-butyl-4-methoxyphenol | 1.23 |
| 3,3-Dimethylbiphenyl | 0.72 |
| 3,4,5-Trichlorophenol | 0.04 |
| 3,4,6-Tricloro-1-methyl-phenol | 1.5 |
| 3,4-Dimethylbiphenyl | 1.01 |
| 3-Methylhexane | 2.7 |
| 4-Bromo-2,5-diclorophenol | 1.2 |
| 4-Ethylacetophenone | 0.59 |
| 4-Chlorobenzoic acid | 1.16 |
| 4-Chlorophenol | 1.25 |
| 4-Methylbenzaldehyde | 0.96 |
| 4-Methylbenzyl alcohol | 0.95 |
| 4-Methylphenol | 0.43 |
| 5-Methyl-2-furane carboxaldehyde | 0.15 |
| 9-Hexadecene carboxylic acid | 1.92 |
| Acetone | 17.6 |
| Acetonitrile | 13.7 |
| Aliphatic amide | 26.67 |
| Aliphatic carbonyl | 0.19 |
| Anthraquinone | 0.14 |
| Benzaldehyde | 1.32 |
| Benzene | 15 |
| Benzoic acid | 100.92 |
| Benzoic acid methyl ester | 0.12 |
| Benzoic acid phenyl ester | 0.35 |
| Benzonitrile | 0.3 |
| Benzophenone | 1.16 |
| Benzothiazole | 0.31 |
| Benzyl alcohol | 3.97 |
| Benzylbutylphthalate | 2.8 |
| Bibenzyl | 0.82 |
| Bromodiclorophenol | 0.33 |
| Bromochlorophenol | 0.23 |
| Butanoic acid ethyl ester | 0.08 |
| Butyl acetate | 5.72 |
| C ₁₀ H ₂₂ HC | 0.27 |
| C ₁₁ H ₁₅ O ₂ N aromatic compound | 0.53 |
| C ₁₂ OHC | 0.11 |
| C ₁₂ H ₂₆ O alcohol | 0.13 |
| C ₁₂ H ₂₆ HC | 0.05 |
| C ₃ H ₅ BrCl ₃ , aromatic compound | 0.24 |
| C4 alkylbenzene | 0.05 |
| C5 alkylbenzene | 0.03 |

| Chemická látka | µg/m ³ |
|--|-------------------|
| C ₆ H ₁₀ O ₂ aliphatic carbonyl | 0.26 |
| C ₈ H ₁₄ O cyclohexanone derivative | 0.16 |
| Catfeine | 0.14 |
| Cyclohexane | 1.7 |
| Cyclopentasiloxanedecarnethyl | 0.06 |
| Decane | 0.94 |
| Decanecarboxylic acid | 1.44 |
| Dibenzothiophene | 0.19 |
| Dibutylphthalate | 7.66 |
| Dichloromethane | 20 |
| Dichloromethylphenol | 0.26 |
| Diisooctylphthalate | 11.23 |
| Dimethylbiphenyl | 0.14 |
| Dimethyloctane | 0.07 |
| Dimethylphthalate | 0.32 |
| Docosane | 0.35 |
| Dodecane | 0.14 |
| Dodecanecarboxylic acid | 0.94 |
| Eicosane | 0.28 |
| Elemental sulphur | 1.87 |
| Ethanol-1-(2-butoxyethoxy) | 0.08 |
| Ethyl acetate | 4.8 |
| Ethyl benzaldehyde | 1.81 |
| Ethyl benzene | 2.56 |
| Ethylbenzoic acid | 35.31 |
| Ethylcyclopentane | 1 |
| Ethylhexanoic acid | 0.6 |
| Ethylmethylcyclohexane | 0.07 |
| Fluorene | 0.01 |
| Fluorenone | 1.69 |
| Fluoroanthene | 0.19 |
| Heneicosane | 0.31 |
| Heptadecane | 0.36 |
| Heptane | 4.7 |
| Heptanecarboxyl acid | 0.5 |
| Hexachlorobenzene | 0.11 |
| Hexachlorobiphenyl | 0.3 |
| Hexadecane | 0.5 |
| Hexadecane amide | 1.2 |
| Hexadecanoic acid | 36.78 |
| Hexadecanoic acid hexadecyl ester | 0.48 |
| Hexanecarboxylic acid | 1.07 |
| Hydroxybenzotrile | 0.08 |
| Hydroxychloroacetophenone | 0.07 |
| Hydroxymethoxybenzaldehyde | 0.12 |
| Chlorobenzene | 2.11 |
| Chlorobenzoic acid | 0.91 |
| Chloroform | 2 |
| Cholesterol | 0.7 |

| Chemická látka | µg/m ³ |
|---------------------------------------|-------------------|
| Iodomethane | 0.5 |
| Isopropyl benzene | 0.11 |
| Methyl acetophenone | 0.76 |
| Methyl decane | 0.06 |
| Methyl hexanol | 0.2 |
| Methylbenzoic acid | 4.23 |
| Methylcyclohexane | 4.7 |
| Methylhexadecanoic acid | 1.97 |
| Methylphenanthrene | 0.06 |
| Methylpropylcyclohexane | 0.24 |
| Naphthalene | 1.51 |
| N-bearing aromatic compound | 2.08 |
| Nitrogen compound | 2.04 |
| Nonadecane | 0.48 |
| Nonane | 0.57 |
| Octadecadienal | 1.67 |
| Octadecane | 0.91 |
| Octadecanecarboxylic acid | 2.23 |
| Octanoic acid | 0.28 |
| Pentachlorobenzene | 0.42 |
| Pentachlorobiphenyl | 0.16 |
| Pentachlorophenol | 1.92 |
| Pentadecanecarboxylic acid | 1.41 |
| Pentachlorobiphenyl | 0.21 |
| Pentane | 1 |
| Pentanecarboxylic acid | 1.31 |
| Phenanthrene | 1.09 |
| Phenol | 1.4 |
| Phthalic ester | 0.17 |
| Phthalic ester + C ₁₅ acid | 1.06 |
| Propylbenzene | 0.28 |
| Propylcyclohexane | 0.16 |
| Pyrene | 0.25 |
| Si organic compound | 0.24 |
| Sulphonic acid | 0.58 |
| Tetradecanecarboxylic acid | 15.08 |
| Tetradecanoic acid isopropyl ester | 0.2 |
| Tetrachlorobenzene | 0.28 |
| Tetrachlorobenzofurane | 0.26 |
| Tetrachloroethylene | 0.16 |
| Toluene | 34 |
| Tridecanoic acid | 0.14 |
| Trichloroethene | 4 |
| Trichlorofluoromethane | 2 |
| Trichlorophenol | 0.18 |
| Trimethylbenzene | 0.42 |
| Trimethylcyclohexane | 0.05 |
| Undecane | 0.67 |
| Xylene | 1.79 |

Zdroj: Jay, K., & Stieglitz, L. Identification and quantification of volatile organic components in emissions of waste incineration plants. *Chemosphere*, 30(7)