# Chloroxylenol

| | |
|---|---|
| **Other names:** | 2-Chloro-5-hydroxy-1,3-dimethylbenzene |
| | 2-Chloro-5-hydroxy-m-xylene |
| | 2-Chloro-m-xylenol |
| | 3,5-Dimethyl-4-chlorophenol |
| | 3,5-Xylenol, 4-chloro- |
| | 4-Chloro-1-hydroxy-3,5-dimethylbenzene |
| | 4-Chloro-3,5-dimethylphenol |
| | 4-Chloro-3,5-xylenol |
| | 4-Chloro-m-xylenol |
| | Ayrtol |
| | Benzytol |
| | Camel |
| | Desson |
| | Dettol |
| | Dettol, liquid antiseptic |
| | Espadol |
| | Husept extra |
| | NSC 4971 |
| | Nipacide PX |
| | Nipacide mx |
| | Ottasept |
| | Ottasept extra |
| | PCMX |
| | Para-chloro-meta-xylenol |
| | Parametaxylenol |
| | Phenol, 4-chloro-3,5-dimethyl- |
| | RBA 777 |
| | Septiderm-hydrochloride |
| | Willenol V |
| | m-Xylenol, 4-chloro- |
| | p-Chloro-3,5-dimethylphenol |
| | p-Chloro-3,5-xylenol |
| | p-Chloro-m-xylenol |
| **Inchi:** | InChI=1S/C8H9ClO/c1-5-3-7(10)4-6(2)8(5)9/h3-4,10H,1-2H3 |
| **InchiKey:** | OSDLLIBGSJNGJE-UHFFFAOYSA-N |
| **Formula:** | C8H9ClO |
| **SMILES:** | Cc1cc(O)cc(C)c1Cl |
| **Mol. weight [g/mol]:** | 156.61 |
| **CAS:** | 88-04-0 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -56.92 | kJ/mol | Joback Method |
| hf | -187.91 | kJ/mol | Joback Method |
| hfus | 19.72 | kJ/mol | Joback Method |
| hvap | 54.40 | kJ/mol | Joback Method |
| log10ws | -2.80 | | Aqueous Solubility Prediction Method |
| logp | 2.662 | | Crippen Method |
| mcvol | 117.930 | ml/mol | McGowan Method |
| pc | 4041.50 | kPa | Joback Method |
| rinpol | 1384.00 | | NIST Webbook |
| rinpol | 1384.00 | | NIST Webbook |
| ripol | 2561.00 | | NIST Webbook |
| tb | 537.13 | K | Joback Method |
| tc | 770.68 | K | Joback Method |
| tf | 387.90 | K | Aqueous Solubility Prediction Method |
| vc | 0.391 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 247.37 | J/mol×K | 537.13 | Joback Method |
| cpg | 257.62 | J/mol×K | 576.06 | Joback Method |
| cpg | 267.16 | J/mol×K | 614.98 | Joback Method |
| cpg | 276.06 | J/mol×K | 653.91 | Joback Method |
| cpg | 284.37 | J/mol×K | 692.83 | Joback Method |
| cpg | 292.19 | J/mol×K | 731.76 | Joback Method |
| cpg | 299.57 | J/mol×K | 770.68 | Joback Method |
| dvisc | 0.0013492 | Pa×s | 373.02 | Joback Method |
| dvisc | 0.0006878 | Pa×s | 400.37 | Joback Method |
| dvisc | 0.0003822 | Pa×s | 427.72 | Joback Method |
| dvisc | 0.0002279 | Pa×s | 455.07 | Joback Method |
| dvisc | 0.0001441 | Pa×s | 482.43 | Joback Method |
| dvisc | 0.0000957 | Pa×s | 509.78 | Joback Method |
| dvisc | 0.0000663 | Pa×s | 537.13 | Joback Method |

# Sources

| | |
|---|---|
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **Aqueous Solubility Prediction Method:** | http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C88040&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **dvisc:** | Dynamic viscosity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |