

3,5-Dichloro-4-hydroxybenzotrile

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| Other names: | Benzotrile, 3,5-dichloro-4-hydroxy- |
| Inchi: | InChI=1S/C7H3Cl2NO/c8-5-1-4(3-10)2-6(9)7(5)11/h1-2,11H |
| InchiKey: | YRSSHOVRSMQULE-UHFFFAOYSA-N |
| Formula: | C7H3Cl2NO |
| SMILES: | N#Cc1cc(Cl)c(O)c(Cl)c1 |
| Mol. weight [g/mol]: | 188.01 |
| CAS: | 1891-95-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 55.91 | kJ/mol | Joback Method |
| hf | -18.13 | kJ/mol | Joback Method |
| hfus | 22.83 | kJ/mol | Joback Method |
| hvap | 67.04 | kJ/mol | Joback Method |
| log10ws | -2.74 | | Crippen Method |
| logp | 2.571 | | Crippen Method |
| mcvol | 117.460 | ml/mol | McGowan Method |
| pc | 4222.04 | kPa | Joback Method |
| tb | 653.76 | K | Joback Method |
| tc | 910.50 | K | Joback Method |
| tf | 456.66 | K | Joback Method |
| vc | 0.409 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 231.72 | J/mol×K | 653.76 | Joback Method |
| cpg | 237.49 | J/mol×K | 696.55 | Joback Method |
| cpg | 242.83 | J/mol×K | 739.34 | Joback Method |
| cpg | 247.82 | J/mol×K | 782.13 | Joback Method |
| cpg | 252.57 | J/mol×K | 824.92 | Joback Method |
| cpg | 257.16 | J/mol×K | 867.71 | Joback Method |
| cpg | 261.68 | J/mol×K | 910.50 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C1891958&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| h vap: | 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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