

3,5-Dichloro-4-hydroxybenzoic acid

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|-----------------------------|---|
| Other names: | Benzoic acid, 3,5-dichloro-4-hydroxy- |
| Inchi: | InChI=1S/C7H4Cl2O3/c8-4-1-3(7(11)12)2-5(9)6(4)10/h1-2,10H,(H,11,12) |
| InchiKey: | AULKDLUOQCUNOK-UHFFFAOYSA-N |
| Formula: | C7H4Cl2O3 |
| SMILES: | O=C(O)c1cc(Cl)c(O)c(Cl)c1 |
| Mol. weight [g/mol]: | 207.01 |
| CAS: | 3336-41-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -343.01 | kJ/mol | Joback Method |
| hf | -447.82 | kJ/mol | Joback Method |
| hfus | 27.01 | kJ/mol | Joback Method |
| hvap | 79.98 | kJ/mol | Joback Method |
| log10ws | -2.45 | | Crippen Method |
| logp | 2.397 | | Crippen Method |
| mcvol | 123.520 | ml/mol | McGowan Method |
| pc | 5414.53 | kPa | Joback Method |
| tb | 697.73 | K | Joback Method |
| tc | 926.10 | K | Joback Method |
| tf | 502.42 | K | Joback Method |
| vc | 0.408 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 264.58 | J/molxK | 697.73 | Joback Method |
| cpg | 289.46 | J/molxK | 888.04 | Joback Method |
| cpg | 284.93 | J/molxK | 849.98 | Joback Method |
| cpg | 280.24 | J/molxK | 811.92 | Joback Method |
| cpg | 275.33 | J/molxK | 773.85 | Joback Method |
| cpg | 270.13 | J/molxK | 735.79 | Joback Method |
| cpg | 293.90 | J/molxK | 926.10 | Joback Method |
| dvisc | 0.0000077 | Paxs | 697.73 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000115 | Paxs | 665.18 | Joback Method |
| dvisc | 0.0000179 | Paxs | 632.63 | Joback Method |
| dvisc | 0.0000293 | Paxs | 600.08 | Joback Method |
| dvisc | 0.0000506 | Paxs | 567.52 | Joback Method |
| dvisc | 0.0000934 | Paxs | 534.97 | Joback Method |
| dvisc | 0.0001867 | Paxs | 502.42 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | https://www.chemeo.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=C3336412&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 |
| mccvol: | 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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