

Dibenzodioxin, 1,6-dibromo-, 3,8-dichloro-

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|-----------------------------|---|
| Other names: | 1,6-dibromo-3,8-dichloro-dibenzo-p-dioxin |
| Inchi: | InChI=1S/C12H4Br2Cl2O2/c13-7-1-5(15)3-9-11(7)17-10-4-6(16)2-8(14)12(10)18-9/h1-4H |
| InchiKey: | ONFKSSOQJGAEGN-UHFFFAOYSA-N |
| Formula: | C12H4Br2Cl2O2 |
| SMILES: | Clc1cc(Br)c2c(c1)Oc1c(Br)cc(Cl)cc1O2 |
| Mol. weight [g/mol]: | 410.87 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 130.30 | kJ/mol | Joback Method |
| hf | -30.29 | kJ/mol | Joback Method |
| hfus | 46.67 | kJ/mol | Joback Method |
| hvap | 81.54 | kJ/mol | Joback Method |
| log10ws | -6.68 | | Crippen Method |
| logp | 6.416 | | Crippen Method |
| mcvol | 192.780 | ml/mol | McGowan Method |
| pc | 3838.78 | kPa | Joback Method |
| rinpol | 2471.00 | | NIST Webbook |
| rinpol | 2471.00 | | NIST Webbook |
| rinpol | 2474.00 | | NIST Webbook |
| rinpol | 2471.00 | | NIST Webbook |
| tb | 825.42 | K | Joback Method |
| tc | 1108.05 | K | Joback Method |
| tf | 611.24 | K | Joback Method |
| vc | 0.722 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 401.92 | J/molxK | 825.42 | Joback Method |
| cpg | 409.40 | J/molxK | 872.53 | Joback Method |
| cpg | 416.49 | J/molxK | 919.63 | Joback Method |
| cpg | 423.35 | J/molxK | 966.74 | Joback Method |
| cpg | 430.15 | J/molxK | 1013.84 | Joback Method |

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|-------|-----------|---------|---------|---------------|
| cpg | 437.04 | J/mol×K | 1060.95 | Joback Method |
| cpg | 444.20 | J/mol×K | 1108.05 | Joback Method |
| dvisc | 0.0010117 | Paxs | 611.24 | Joback Method |
| dvisc | 0.0008382 | Paxs | 646.94 | Joback Method |
| dvisc | 0.0007082 | Paxs | 682.63 | Joback Method |
| dvisc | 0.0006085 | Paxs | 718.33 | Joback Method |
| dvisc | 0.0005304 | Paxs | 754.03 | Joback Method |
| dvisc | 0.0004681 | Paxs | 789.72 | Joback Method |
| dvisc | 0.0004177 | Paxs | 825.42 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=R171450&Units=SI |

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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/119-904-6/Dibenzodioxin-1-6-dibromo-3-8-dichloro.pdf>

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