

Dibenzodioxin, 3,6,8-tribromo-, 1,2,9-trichloro-

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|-----------------------------|---|
| Other names: | 3,6,8-tribromo-1,2,9-trichloro-dibenzo-p-dioxin |
| Inchi: | InChI=1S/C12H2Br3Cl3O2/c13-3-1-5(15)10-12(8(3)17)20-11-6(19-10)2-4(14)7(16)9(11)1 |
| InchiKey: | QFJXPHUBCBYPBP-UHFFFAOYSA-N |
| Formula: | C12H2Br3Cl3O2 |
| SMILES: | Clc1c(Br)cc2c(c1Cl)Oc1c(Cl)c(Br)cc(Br)c1O2 |
| Mol. weight [g/mol]: | 524.21 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 113.43 | kJ/mol | Joback Method |
| hf | -42.64 | kJ/mol | Joback Method |
| hfus | 55.37 | kJ/mol | Joback Method |
| hvap | 93.68 | kJ/mol | Joback Method |
| log10ws | -8.53 | | Crippen Method |
| logp | 7.832 | | Crippen Method |
| mcvol | 222.520 | ml/mol | McGowan Method |
| pc | 3848.31 | kPa | Joback Method |
| rinpol | 3067.00 | | NIST Webbook |
| rinpol | 3067.00 | | NIST Webbook |
| rinpol | 3067.00 | | NIST Webbook |
| tb | 938.97 | K | Joback Method |
| tc | 1230.73 | K | Joback Method |
| tf | 726.00 | K | Joback Method |
| vc | 0.833 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 431.25 | J/molxK | 938.97 | Joback Method |
| cpg | 437.74 | J/molxK | 987.60 | Joback Method |
| cpg | 444.35 | J/molxK | 1036.22 | Joback Method |
| cpg | 451.24 | J/molxK | 1084.85 | Joback Method |
| cpg | 458.59 | J/molxK | 1133.48 | Joback Method |
| cpg | 466.58 | J/molxK | 1182.11 | Joback Method |

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|-------|-----------|---------|---------|---------------|
| cpg | 475.38 | J/molxK | 1230.73 | Joback Method |
| dvisc | 0.0006566 | Paxs | 726.00 | Joback Method |
| dvisc | 0.0005615 | Paxs | 761.50 | Joback Method |
| dvisc | 0.0004869 | Paxs | 796.99 | Joback Method |
| dvisc | 0.0004273 | Paxs | 832.49 | Joback Method |
| dvisc | 0.0003791 | Paxs | 867.98 | Joback Method |
| dvisc | 0.0003395 | Paxs | 903.48 | Joback Method |
| dvisc | 0.0003066 | Paxs | 938.97 | 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=R172082&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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/123-204-8/Dibenzodioxin-3-6-8-tribromo-1-2-9-trichloro.pdf>

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