

Phthalic acid, di(2,4-dichlorobenzyl) ester

Inchi: InChI=1S/C22H14Cl4O4/c23-15-7-5-13(19(25)9-15)11-29-21(27)17-3-1-2-4-18(17)22(28)
InchiKey: QLXUOZDLKOAJJB-UHFFFAOYSA-N
Formula: C22H14Cl4O4
SMILES: O=C(OCc1ccc(Cl)cc1Cl)c1cccc1C(=O)OCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 484.16

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -92.12 | kJ/mol | Joback Method |
| hf | -397.73 | kJ/mol | Joback Method |
| hfus | 55.28 | kJ/mol | Joback Method |
| hvap | 110.56 | kJ/mol | Joback Method |
| log10ws | -8.92 | | Crippen Method |
| logp | 7.014 | | Crippen Method |
| mvol | 313.400 | ml/mol | McGowan Method |
| pc | 1641.76 | kPa | Joback Method |
| rinpol | 3385.00 | | NIST Webbook |
| rinpol | 3385.00 | | NIST Webbook |
| tb | 1110.00 | K | Joback Method |
| tc | 1374.69 | K | Joback Method |
| tf | 743.56 | K | Joback Method |
| vc | 1.188 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 852.02 | J/mol×K | 1110.00 | Joback Method |
| cpg | 857.52 | J/mol×K | 1154.11 | Joback Method |
| cpg | 861.58 | J/mol×K | 1198.23 | Joback Method |
| cpg | 864.26 | J/mol×K | 1242.34 | Joback Method |
| cpg | 865.62 | J/mol×K | 1286.46 | Joback Method |
| cpg | 865.71 | J/mol×K | 1330.57 | Joback Method |
| cpg | 864.59 | J/mol×K | 1374.69 | Joback Method |
| dvisc | 0.0001280 | Paxs | 743.56 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0000882 | Paxs | 804.63 | Joback Method |
| dvisc | 0.0000640 | Paxs | 865.71 | Joback Method |
| dvisc | 0.0000485 | Paxs | 926.78 | Joback Method |
| dvisc | 0.0000380 | Paxs | 987.85 | Joback Method |
| dvisc | 0.0000307 | Paxs | 1048.93 | Joback Method |
| dvisc | 0.0000253 | Paxs | 1110.00 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U382570&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| 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 |

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/124-183-1/Phthalic-acid-di-2-4-dichlorobenzyl-ester.pdf>

Generated by Cheméo on 2024-04-28 00:19:47.552466958 +0000 UTC m=+16552836.473044280.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.