

Isophthalic acid, 2,6-dichlorophenyl decyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C24H28Cl2O4/c1-2-3-4-5-6-7-8-9-16-29-23(27)18-12-10-13-19(17-18)24(28)30 |
| InchiKey: | KALCTSIVLBMRAE-UHFFFAOYSA-N |
| Formula: | C24H28Cl2O4 |
| SMILES: | CCCCCCCCCOC(=O)c1cccc(C(=O)Oc2c(Cl)cccc2Cl)c1 |
| Mol. weight [g/mol]: | 451.38 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -144.57 | kJ/mol | Joback Method |
| hf | -621.12 | kJ/mol | Joback Method |
| hfus | 58.80 | kJ/mol | Joback Method |
| hvap | 102.64 | kJ/mol | Joback Method |
| log10ws | -8.94 | | Crippen Method |
| logp | 7.510 | | Crippen Method |
| mcvol | 340.860 | ml/mol | McGowan Method |
| pc | 1199.79 | kPa | Joback Method |
| rinpol | 3382.00 | | NIST Webbook |
| rinpol | 3382.00 | | NIST Webbook |
| tb | 1044.26 | K | Joback Method |
| tc | 1280.83 | K | Joback Method |
| tf | 654.80 | K | Joback Method |
| vc | 1.310 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1057.56 | J/molxK | 1044.26 | Joback Method |
| cpg | 1069.02 | J/molxK | 1083.69 | Joback Method |
| cpg | 1079.02 | J/molxK | 1123.12 | Joback Method |
| cpg | 1087.63 | J/molxK | 1162.54 | Joback Method |
| cpg | 1094.89 | J/molxK | 1201.97 | Joback Method |
| cpg | 1100.85 | J/molxK | 1241.40 | Joback Method |
| cpg | 1105.58 | J/molxK | 1280.83 | Joback Method |
| dvisc | 0.0001817 | Paxs | 654.80 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0001113 | Paxs | 719.71 | Joback Method |
| dvisc | 0.0000739 | Paxs | 784.62 | Joback Method |
| dvisc | 0.0000522 | Paxs | 849.53 | Joback Method |
| dvisc | 0.0000388 | Paxs | 914.44 | Joback Method |
| dvisc | 0.0000299 | Paxs | 979.35 | Joback Method |
| dvisc | 0.0000239 | Paxs | 1044.26 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U344628&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |

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