

Phthalic acid, 2,4,6-trichlorobenzyl undecyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C26H31Cl3O4/c1-2-3-4-5-6-7-8-9-12-15-32-25(30)20-13-10-11-14-21(20)26(30)27 |
| InchiKey: | GHRBOCJZOAWZTF-UHFFFAOYSA-N |
| Formula: | C26H31Cl3O4 |
| SMILES: | CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1c(Cl)cc(Cl)cc1Cl |
| Mol. weight [g/mol]: | 513.88 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -149.29 | kJ/mol | Joback Method |
| hf | -689.61 | kJ/mol | Joback Method |
| hfus | 67.79 | kJ/mol | Joback Method |
| hvap | 112.14 | kJ/mol | Joback Method |
| log10ws | -10.31 | | Crippen Method |
| logp | 8.691 | | Crippen Method |
| mvol | 381.280 | ml/mol | McGowan Method |
| pc | 1020.08 | kPa | Joback Method |
| rinpol | 3460.00 | | NIST Webbook |
| rinpol | 3460.00 | | NIST Webbook |
| tb | 1132.43 | K | Joback Method |
| tc | 1386.83 | K | Joback Method |
| tf | 719.78 | K | Joback Method |
| vc | 1.470 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1193.79 | J/molxK | 1132.43 | Joback Method |
| cpg | 1227.52 | J/molxK | 1344.43 | Joback Method |
| cpg | 1223.83 | J/molxK | 1302.03 | Joback Method |
| cpg | 1218.67 | J/molxK | 1259.63 | Joback Method |
| cpg | 1211.99 | J/molxK | 1217.23 | Joback Method |
| cpg | 1203.72 | J/molxK | 1174.83 | Joback Method |
| cpg | 1229.83 | J/molxK | 1386.83 | Joback Method |
| dvisc | 0.0000151 | Paxs | 1132.43 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0000188 | Paxs | 1063.66 | Joback Method |
| dvisc | 0.0000242 | Paxs | 994.88 | Joback Method |
| dvisc | 0.0000322 | Paxs | 926.11 | Joback Method |
| dvisc | 0.0000451 | Paxs | 857.33 | Joback Method |
| dvisc | 0.0000668 | Paxs | 788.55 | Joback Method |
| dvisc | 0.0001069 | Paxs | 719.78 | 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=U382885&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 |
| 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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