

Sebacic acid, 2-chloro-5-methylphenyl undecyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C28H45ClO4/c1-3-4-5-6-7-8-11-14-17-22-32-27(30)18-15-12-9-10-13-16-19-20 |
| InchiKey: | WHUNWXUZRNKZSP-UHFFFAOYSA-N |
| Formula: | C28H45ClO4 |
| SMILES: | CCCCCCCCCCCCOC(=O)CCCCCCCCC(=O)Oc1cc(C)ccc1Cl |
| Mol. weight [g/mol]: | 481.11 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -201.74 | kJ/mol | Joback Method |
| hf | -913.00 | kJ/mol | Joback Method |
| hfus | 71.31 | kJ/mol | Joback Method |
| hvap | 104.22 | kJ/mol | Joback Method |
| log10ws | -9.76 | | Crippen Method |
| logp | 8.749 | | Crippen Method |
| mvol | 408.740 | ml/mol | McGowan Method |
| pc | 793.49 | kPa | Joback Method |
| rinpol | 3516.00 | | NIST Webbook |
| rinpol | 3516.00 | | NIST Webbook |
| tb | 1066.69 | K | Joback Method |
| tc | 1314.62 | K | Joback Method |
| tf | 631.02 | K | Joback Method |
| vc | 1.593 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1394.04 | J/molxK | 1066.69 | Joback Method |
| cpg | 1410.91 | J/molxK | 1108.01 | Joback Method |
| cpg | 1425.85 | J/molxK | 1149.33 | Joback Method |
| cpg | 1438.95 | J/molxK | 1190.66 | Joback Method |
| cpg | 1450.28 | J/molxK | 1231.98 | Joback Method |
| cpg | 1459.92 | J/molxK | 1273.30 | Joback Method |
| cpg | 1467.94 | J/molxK | 1314.62 | Joback Method |
| dvisc | 0.0001662 | Paxs | 631.02 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0000895 | Paxs | 703.63 | Joback Method |
| dvisc | 0.0000541 | Paxs | 776.24 | Joback Method |
| dvisc | 0.0000356 | Paxs | 848.86 | Joback Method |
| dvisc | 0.0000251 | Paxs | 921.47 | Joback Method |
| dvisc | 0.0000186 | Paxs | 994.08 | Joback Method |
| dvisc | 0.0000143 | Paxs | 1066.69 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U355309&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 |
| mccvol: | 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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