

1,2-Cyclohexanedicarboxylic acid, 2-chlorophenyl pentadecyl ester

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| Inchi: | InChI=1S/C29H45ClO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-18-23-33-28(31)24-19-14-15-20 |
| InchiKey: | GIALXPAJIWDMQC-UHFFFAOYSA-N |
| Formula: | C29H45ClO4 |
| SMILES: | CCCCCCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1ccccc1Cl |
| Mol. weight [g/mol]: | 493.12 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -166.95 | kJ/mol | Joback Method |
| hf | -888.19 | kJ/mol | Joback Method |
| hfus | 67.19 | kJ/mol | Joback Method |
| hvap | 105.90 | kJ/mol | Joback Method |
| log10ws | -9.53 | | Crippen Method |
| logp | 8.686 | | Crippen Method |
| mcvol | 411.970 | ml/mol | McGowan Method |
| pc | 835.79 | kPa | Joback Method |
| rinpol | 3567.00 | | NIST Webbook |
| tb | 1099.47 | K | Joback Method |
| tc | 1348.99 | K | Joback Method |
| tf | 632.91 | K | Joback Method |
| vc | 1.581 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1454.10 | J/molxK | 1099.47 | Joback Method |
| cpg | 1469.08 | J/molxK | 1141.06 | Joback Method |
| cpg | 1481.88 | J/molxK | 1182.64 | Joback Method |
| cpg | 1492.59 | J/molxK | 1224.23 | Joback Method |
| cpg | 1501.29 | J/molxK | 1265.81 | Joback Method |
| cpg | 1508.07 | J/molxK | 1307.40 | Joback Method |
| cpg | 1513.01 | J/molxK | 1348.99 | Joback Method |
| dvisc | 0.0002139 | Paxs | 632.91 | Joback Method |
| dvisc | 0.0001107 | Paxs | 710.67 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0000653 | Paxs | 788.43 | Joback Method |
| dvisc | 0.0000423 | Paxs | 866.19 | Joback Method |
| dvisc | 0.0000295 | Paxs | 943.95 | Joback Method |
| dvisc | 0.0000217 | Paxs | 1021.71 | Joback Method |
| dvisc | 0.0000167 | Paxs | 1099.47 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U339591&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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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