

Pimelic acid, 4-chlorophenyl hexyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C19H27ClO4/c1-2-3-4-8-15-23-18(21)9-6-5-7-10-19(22)24-17-13-11-16(20)12 |
| InchiKey: | BVSBZHVJESNBHV-UHFFFAOYSA-N |
| Formula: | C19H27ClO4 |
| SMILES: | CCCCCOC(=O)CCCCC(=O)Oc1ccc(Cl)cc1 |
| Mol. weight [g/mol]: | 354.87 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -267.89 | kJ/mol | Joback Method |
| hf | -715.77 | kJ/mol | Joback Method |
| hfus | 48.39 | kJ/mol | Joback Method |
| hvap | 83.52 | kJ/mol | Joback Method |
| log10ws | -5.94 | | Crippen Method |
| logp | 5.319 | | Crippen Method |
| mvol | 281.930 | ml/mol | McGowan Method |
| pc | 1401.69 | kPa | Joback Method |
| rinpol | 2585.00 | | NIST Webbook |
| rinpol | 2585.00 | | NIST Webbook |
| tb | 855.79 | K | Joback Method |
| tc | 1060.17 | K | Joback Method |
| tf | 517.07 | K | Joback Method |
| vc | 1.089 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 846.29 | J/molxK | 855.79 | Joback Method |
| cpg | 861.04 | J/molxK | 889.85 | Joback Method |
| cpg | 874.69 | J/molxK | 923.92 | Joback Method |
| cpg | 887.26 | J/molxK | 957.98 | Joback Method |
| cpg | 898.76 | J/molxK | 992.04 | Joback Method |
| cpg | 909.23 | J/molxK | 1026.10 | Joback Method |
| cpg | 918.69 | J/molxK | 1060.17 | Joback Method |
| dvisc | 0.0005380 | Paxs | 517.07 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0003045 | Paxs | 573.52 | Joback Method |
| dvisc | 0.0001909 | Paxs | 629.98 | Joback Method |
| dvisc | 0.0001292 | Paxs | 686.43 | Joback Method |
| dvisc | 0.0000928 | Paxs | 742.88 | Joback Method |
| dvisc | 0.0000698 | Paxs | 799.34 | Joback Method |
| dvisc | 0.0000546 | Paxs | 855.79 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=U393832&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 |
| 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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