

Sarcosine, N-(2-chlorobenzoyl)-, hexyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C16H22ClNO3/c1-3-4-5-8-11-21-15(19)12-18(2)16(20)13-9-6-7-10-14(13)17/h |
| InchiKey: | CCRNYVLCQLBOBV-UHFFFAOYSA-N |
| Formula: | C16H22ClNO3 |
| SMILES: | CCCCCCOC(=O)CN(C)C(=O)c1ccccc1Cl |
| Mol. weight [g/mol]: | 311.80 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -77.37 | kJ/mol | Joback Method |
| hf | -454.10 | kJ/mol | Joback Method |
| hfus | 42.45 | kJ/mol | Joback Method |
| hvap | 76.48 | kJ/mol | Joback Method |
| log10ws | -4.09 | | Crippen Method |
| logp | 3.536 | | Crippen Method |
| mvol | 243.770 | ml/mol | McGowan Method |
| pc | 1783.35 | kPa | Joback Method |
| rinpol | 2330.00 | | NIST Webbook |
| tb | 777.17 | K | Joback Method |
| tc | 981.98 | K | Joback Method |
| tf | 493.50 | K | Joback Method |
| vc | 0.920 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 688.39 | J/mol×K | 777.17 | Joback Method |
| cpg | 702.86 | J/mol×K | 811.31 | Joback Method |
| cpg | 716.34 | J/mol×K | 845.44 | Joback Method |
| cpg | 728.87 | J/mol×K | 879.58 | Joback Method |
| cpg | 740.49 | J/mol×K | 913.71 | Joback Method |
| cpg | 751.24 | J/mol×K | 947.85 | Joback Method |
| cpg | 761.15 | J/mol×K | 981.98 | 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=U321206&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccol: | 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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