

Sarcosine, N-(3-cyclopentylpropionyl)-, pentyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C16H29NO3/c1-3-4-7-12-20-16(19)13-17(2)15(18)11-10-14-8-5-6-9-14/h14H,3 |
| InchiKey: | VKWHFIKDDUHTBA-UHFFFAOYSA-N |
| Formula: | C16H29NO3 |
| SMILES: | CCCCCOC(=O)CN(C)C(=O)CCC1CCCC1 |
| Mol. weight [g/mol]: | 283.41 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -131.67 | kJ/mol | Joback Method |
| hf | -602.94 | kJ/mol | Joback Method |
| hfus | 38.54 | kJ/mol | Joback Method |
| hvap | 69.41 | kJ/mol | Joback Method |
| log10ws | -3.38 | | Crippen Method |
| logp | 3.149 | | Crippen Method |
| mvol | 244.430 | ml/mol | McGowan Method |
| pc | 1643.09 | kPa | Joback Method |
| rinpol | 2179.00 | | NIST Webbook |
| rinpol | 2179.00 | | NIST Webbook |
| tb | 723.36 | K | Joback Method |
| tc | 914.29 | K | Joback Method |
| tf | 435.54 | K | Joback Method |
| vc | 0.920 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 736.77 | J/molxK | 723.36 | Joback Method |
| cpg | 755.02 | J/molxK | 755.18 | Joback Method |
| cpg | 772.21 | J/molxK | 787.00 | Joback Method |
| cpg | 788.38 | J/molxK | 818.82 | Joback Method |
| cpg | 803.56 | J/molxK | 850.64 | Joback Method |
| cpg | 817.78 | J/molxK | 882.47 | Joback Method |
| cpg | 831.09 | J/molxK | 914.29 | 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=U321833&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 |
| h vap: | 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 |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/116-751-9/Sarcosine-N-3-cyclopentylpropionyl-pentyl-ester.pdf>

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