

Sarcosine, N-(4-methoxybenzoyl)-, heptyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C18H27NO4/c1-4-5-6-7-8-13-23-17(20)14-19(2)18(21)15-9-11-16(22-3)12-10- |
| InchiKey: | JNAYXSAHRHAPKL-UHFFFAOYSA-N |
| Formula: | C18H27NO4 |
| SMILES: | CCCCCCCOC(=O)CN(C)C(=O)c1ccc(OC)cc1 |
| Mol. weight [g/mol]: | 321.41 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -153.60 | kJ/mol | Joback Method |
| hf | -611.86 | kJ/mol | Joback Method |
| hfus | 44.62 | kJ/mol | Joback Method |
| hvap | 78.96 | kJ/mol | Joback Method |
| log10ws | -3.95 | | Crippen Method |
| logp | 3.281 | | Crippen Method |
| mvol | 265.580 | ml/mol | McGowan Method |
| pc | 1550.00 | kPa | Joback Method |
| rinpol | 2567.00 | | NIST Webbook |
| rinpol | 2567.00 | | NIST Webbook |
| tb | 807.92 | K | Joback Method |
| tc | 1006.87 | K | Joback Method |
| tf | 508.35 | K | Joback Method |
| vc | 1.002 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 802.88 | J/mol×K | 807.92 | Joback Method |
| cpg | 818.59 | J/mol×K | 841.08 | Joback Method |
| cpg | 833.23 | J/mol×K | 874.24 | Joback Method |
| cpg | 846.83 | J/mol×K | 907.40 | Joback Method |
| cpg | 859.40 | J/mol×K | 940.55 | Joback Method |
| cpg | 870.98 | J/mol×K | 973.71 | Joback Method |
| cpg | 881.59 | J/mol×K | 1006.87 | 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=U321425&Units=SI |

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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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