

Sarcosine, N-(4-butylbenzoyl)-, hexyl ester

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| Inchi: | InChI=1S/C20H31NO3/c1-4-6-8-9-15-24-19(22)16-21(3)20(23)18-13-11-17(12-14-18)10- |
| InchiKey: | ILEPPZWQWHOOFZ-UHFFFAOYSA-N |
| Formula: | C20H31NO3 |
| SMILES: | CCCCCOC(=O)CN(C)C(=O)c1ccc(CCCC)cc1 |
| Mol. weight [g/mol]: | 333.46 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -31.76 | kJ/mol | Joback Method |
| hf | -520.92 | kJ/mol | Joback Method |
| hfus | 48.61 | kJ/mol | Joback Method |
| hvap | 81.00 | kJ/mol | Joback Method |
| log10ws | -5.05 | | Crippen Method |
| logp | 4.225 | | Crippen Method |
| mvol | 287.890 | ml/mol | McGowan Method |
| pc | 1356.63 | kPa | Joback Method |
| rinpol | 2591.00 | | NIST Webbook |
| rinpol | 2591.00 | | NIST Webbook |
| tb | 831.26 | K | Joback Method |
| tc | 1030.06 | K | Joback Method |
| tf | 508.66 | K | Joback Method |
| vc | 1.095 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 890.48 | J/mol×K | 831.26 | Joback Method |
| cpg | 907.08 | J/mol×K | 864.39 | Joback Method |
| cpg | 922.59 | J/mol×K | 897.53 | Joback Method |
| cpg | 937.06 | J/mol×K | 930.66 | Joback Method |
| cpg | 950.53 | J/mol×K | 963.79 | Joback Method |
| cpg | 963.03 | J/mol×K | 996.92 | Joback Method |
| cpg | 974.62 | J/mol×K | 1030.06 | 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=U321135&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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<https://www.chemeo.com/cid/98-089-6/Sarcosine-N-4-butylbenzoyl-hexyl-ester.pdf>

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