

Propanamide, 3-cyclopentyl-N-octadecyl-

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|-----------------------------|--|
| Inchi: | InChI=1S/C26H51NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-24-27-26(28)23-22-2 |
| InchiKey: | OIPGQWDCQPVPON-UHFFFAOYSA-N |
| Formula: | C26H51NO |
| SMILES: | CCCCCCCCCCCCCCCCCNC(=O)CCC1CCCC1 |
| Mol. weight [g/mol]: | 393.69 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 165.06 | kJ/mol | Joback Method |
| hf | -578.60 | kJ/mol | Joback Method |
| hfus | 63.73 | kJ/mol | Joback Method |
| hvap | 86.91 | kJ/mol | Joback Method |
| log10ws | -9.32 | | Crippen Method |
| logp | 8.335 | | Crippen Method |
| mvol | 377.890 | ml/mol | McGowan Method |
| pc | 836.28 | kPa | Joback Method |
| rinpol | 3182.00 | | NIST Webbook |
| rinpol | 3182.00 | | NIST Webbook |
| tb | 913.60 | K | Joback Method |
| tc | 1118.65 | K | Joback Method |
| tf | 496.27 | K | Joback Method |
| vc | 1.474 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1316.01 | J/molxK | 913.60 | Joback Method |
| cpg | 1338.35 | J/molxK | 947.78 | Joback Method |
| cpg | 1359.34 | J/molxK | 981.95 | Joback Method |
| cpg | 1379.04 | J/molxK | 1016.13 | Joback Method |
| cpg | 1397.54 | J/molxK | 1050.30 | Joback Method |
| cpg | 1414.93 | J/molxK | 1084.48 | Joback Method |
| cpg | 1431.27 | J/molxK | 1118.65 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U407389&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

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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