

Acetamide, 2-phenyl-N-butyl-N-hept-2-yl-

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|-----------------------------|---|
| Inchi: | InChI=1S/C19H31NO/c1-4-6-9-12-17(3)20(15-7-5-2)19(21)16-18-13-10-8-11-14-18/h8,10 |
| InchiKey: | JLMXKLARNZPTNZ-UHFFFAOYSA-N |
| Formula: | C19H31NO |
| SMILES: | CCCCC(C)N(CCCC)C(=O)Cc1ccccc1 |
| Mol. weight [g/mol]: | 289.46 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 200.93 | kJ/mol | Joback Method |
| hf | -249.29 | kJ/mol | Joback Method |
| hfus | 40.10 | kJ/mol | Joback Method |
| hvap | 68.56 | kJ/mol | Joback Method |
| log10ws | -5.34 | | Crippen Method |
| logp | 4.827 | | Crippen Method |
| mcvol | 266.360 | ml/mol | McGowan Method |
| pc | 1432.63 | kPa | Joback Method |
| rinpol | 1581.00 | | NIST Webbook |
| rinpol | 1581.00 | | NIST Webbook |
| tb | 726.67 | K | Joback Method |
| tc | 919.33 | K | Joback Method |
| tf | 397.71 | K | Joback Method |
| vc | 1.010 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 779.75 | J/mol×K | 726.67 | Joback Method |
| cpg | 798.54 | J/mol×K | 758.78 | Joback Method |
| cpg | 816.24 | J/mol×K | 790.89 | Joback Method |
| cpg | 832.91 | J/mol×K | 823.00 | Joback Method |
| cpg | 848.60 | J/mol×K | 855.11 | Joback Method |
| cpg | 863.36 | J/mol×K | 887.22 | Joback Method |
| cpg | 877.24 | J/mol×K | 919.33 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U415674&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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