

N-(1,4-dimethylpentyl) acetoacetamide

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| Inchi: | InChI=1S/C11H21NO2/c1-8(2)5-6-9(3)12-11(14)7-10(4)13/h8-9H,5-7H2,1-4H3,(H,12,14) |
| InchiKey: | NDOJWLCHAUMMPF-UHFFFAOYSA-N |
| Formula: | C11H21NO2 |
| SMILES: | CC(=O)CC(=O)NC(C)CCC(C)C |
| Mol. weight [g/mol]: | 199.29 |
| CAS: | 73622-68-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -131.59 | kJ/mol | Joback Method |
| hf | -452.62 | kJ/mol | Joback Method |
| hfus | 25.50 | kJ/mol | Joback Method |
| hvap | 59.23 | kJ/mol | Joback Method |
| log10ws | -2.54 | | Crippen Method |
| logp | 1.906 | | Crippen Method |
| mcvol | 178.970 | ml/mol | McGowan Method |
| pc | 2227.09 | kPa | Joback Method |
| tb | 608.11 | K | Joback Method |
| tc | 796.58 | K | Joback Method |
| tf | 336.25 | K | Joback Method |
| vc | 0.686 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 466.32 | J/molxK | 608.11 | Joback Method |
| cpg | 481.14 | J/molxK | 639.52 | Joback Method |
| cpg | 495.21 | J/molxK | 670.93 | Joback Method |
| cpg | 508.56 | J/molxK | 702.35 | Joback Method |
| cpg | 521.20 | J/molxK | 733.76 | Joback Method |
| cpg | 533.15 | J/molxK | 765.17 | Joback Method |
| cpg | 544.43 | J/molxK | 796.58 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C73622681&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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