

Acetamide, N-butyl-N-3-methylbutyl-

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|-----------------------------|---|
| Inchi: | InChI=1S/C11H23NO/c1-5-6-8-12(11(4)13)9-7-10(2)3/h10H,5-9H2,1-4H3 |
| InchiKey: | PGJMZGOUMZZJRZ-UHFFFAOYSA-N |
| Formula: | C11H23NO |
| SMILES: | CCCCN(CCC(C)C)C(C)=O |
| Mol. weight [g/mol]: | 185.31 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 21.16 | kJ/mol | Joback Method |
| hf | -320.70 | kJ/mol | Joback Method |
| hfus | 25.34 | kJ/mol | Joback Method |
| hvap | 48.48 | kJ/mol | Joback Method |
| log10ws | -2.53 | | Crippen Method |
| logp | 2.681 | | Crippen Method |
| mcvol | 177.400 | ml/mol | McGowan Method |
| pc | 2056.76 | kPa | Joback Method |
| rinpol | 1599.00 | | NIST Webbook |
| rinpol | 1599.00 | | NIST Webbook |
| tb | 516.95 | K | Joback Method |
| tc | 690.14 | K | Joback Method |
| tf | 281.13 | K | Joback Method |
| vc | 0.669 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 423.60 | J/mol×K | 516.95 | Joback Method |
| cpg | 439.82 | J/mol×K | 545.82 | Joback Method |
| cpg | 455.32 | J/mol×K | 574.68 | Joback Method |
| cpg | 470.13 | J/mol×K | 603.55 | Joback Method |
| cpg | 484.26 | J/mol×K | 632.41 | Joback Method |
| cpg | 497.74 | J/mol×K | 661.28 | Joback Method |
| cpg | 510.58 | J/mol×K | 690.14 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U415740&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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 |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpola: | 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/93-079-2/Acetamide-N-butyl-N-3-methylbutyl.pdf>

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