

Formamide, N-(1-adamantyl)-

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|-----------------------------|---|
| Other names: | N-(1-Adamantyl)formamide |
| Inchi: | InChI=1S/C11H17NO/c13-7-12-11-4-8-1-9(5-11)3-10(2-8)6-11/h7-10H,1-6H2,(H,12,13)/t |
| InchiKey: | BUPHJFOIWZKPNV-BIBSGERRSA-N |
| Formula: | C11H17NO |
| SMILES: | O=CNC12CC3CC(CC(C3)C1)C2 |
| Mol. weight [g/mol]: | 179.26 |
| CAS: | 3405-48-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 188.56 | kJ/mol | Joback Method |
| hf | -95.34 | kJ/mol | Joback Method |
| hfus | 18.71 | kJ/mol | Joback Method |
| hvap | 51.69 | kJ/mol | Joback Method |
| log10ws | -2.46 | | Crippen Method |
| logp | 1.701 | | Crippen Method |
| mcvol | 144.820 | ml/mol | McGowan Method |
| pc | 3228.31 | kPa | Joback Method |
| rinpol | 1693.00 | | NIST Webbook |
| tb | 569.97 | K | Joback Method |
| tc | 793.81 | K | Joback Method |
| tf | 378.35 | K | Joback Method |
| vc | 0.564 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 402.25 | J/molxK | 569.97 | Joback Method |
| cpg | 420.53 | J/molxK | 607.28 | Joback Method |
| cpg | 437.44 | J/molxK | 644.58 | Joback Method |
| cpg | 453.18 | J/molxK | 681.89 | Joback Method |
| cpg | 467.96 | J/molxK | 719.19 | Joback Method |
| cpg | 481.98 | J/molxK | 756.50 | Joback Method |
| cpg | 495.46 | J/molxK | 793.81 | 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=C3405489&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/38-638-2/Formamide-N-1-adamantyl.pdf>

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