

Valeramide, 5-chloro-N-octyl-

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|-----------------------------|---|
| Inchi: | InChI=1S/C13H26ClNO/c1-2-3-4-5-6-9-12-15-13(16)10-7-8-11-14/h2-12H2,1H3,(H,15,16) |
| InchiKey: | RDGNMEAMKZMHHK-UHFFFAOYSA-N |
| Formula: | C13H26ClNO |
| SMILES: | CCCCCCCCNC(=O)CCCCCl |
| Mol. weight [g/mol]: | 247.81 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 7.12 | kJ/mol | Joback Method |
| hf | -386.50 | kJ/mol | Joback Method |
| hfus | 40.32 | kJ/mol | Joback Method |
| hvap | 62.10 | kJ/mol | Joback Method |
| log10ws | -4.38 | | Crippen Method |
| logp | 3.872 | | Crippen Method |
| mvol | 217.820 | ml/mol | McGowan Method |
| pc | 1697.70 | kPa | Joback Method |
| rinpol | 2037.00 | | NIST Webbook |
| rinpol | 2037.00 | | NIST Webbook |
| tb | 638.31 | K | Joback Method |
| tc | 814.69 | K | Joback Method |
| tf | 368.78 | K | Joback Method |
| vc | 0.854 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 577.07 | J/mol×K | 638.31 | Joback Method |
| cpg | 592.73 | J/mol×K | 667.71 | Joback Method |
| cpg | 607.65 | J/mol×K | 697.10 | Joback Method |
| cpg | 621.86 | J/mol×K | 726.50 | Joback Method |
| cpg | 635.38 | J/mol×K | 755.90 | Joback Method |
| cpg | 648.24 | J/mol×K | 785.29 | Joback Method |
| cpg | 660.45 | J/mol×K | 814.69 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U407370&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

Legend

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|-----------------|---|
| 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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