# Valeramide, 5-chloro-N-(3-methylbutyl)-

**Inchi:** InChI=1S/C10H20ClNO/c1-9(2)6-8-12-10(13)5-3-4-7-11/h9H,3-8H2,1-2H3,(H,12,13)
**InchiKey:** GRWJQLVSSDGGPL-UHFFFAOYSA-N
**Formula:** C10H20ClNO
**SMILES:** CC(C)CCN=C(O)CCCCCl
**Mol. weight [g/mol]:** 205.72

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -350.55 | kJ/mol | Joback Method |
| hvap | 61.92 | kJ/mol | Joback Method |
| log10ws | -2.90 | | Crippen Method |
| logp | 3.398 | | Crippen Method |
| mcvol | 175.550 | ml/mol | McGowan Method |
| pc | 2038.23 | kPa | Joback Method |
| rinpol | 1683.00 | | NIST Webbook |
| rinpol | 1683.00 | | NIST Webbook |
| tb | 633.93 | K | Joback Method |
| tc | 817.22 | K | Joback Method |

## Sources

**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
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=U407532&Units=SI

## Legend

**hf:** Enthalpy of formation 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |