# Propionamide, 2,3-dichloro-N-pentyl-

**Inchi:** InChI=1S/C8H15Cl2NO/c1-2-3-4-5-11-8(12)7(10)6-9/h7H,2-6H2,1H3,(H,11,12)
**InchiKey:** KZQJTJJPFSQOBT-UHFFFAOYSA-N
**Formula:** C8H15Cl2NO
**SMILES:** CCCCCNC(=O)C(Cl)CCl
**Mol. weight [g/mol]:** 212.12

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -49.35 | kJ/mol | Joback Method |
| hf | -304.32 | kJ/mol | Joback Method |
| hfus | 28.05 | kJ/mol | Joback Method |
| hvap | 54.97 | kJ/mol | Joback Method |
| log10ws | -2.55 | | Crippen Method |
| logp | 2.139 | | Crippen Method |
| mcvol | 159.610 | ml/mol | McGowan Method |
| pc | 2561.10 | kPa | Joback Method |
| rinpol | 1644.00 | | NIST Webbook |
| rinpol | 1644.00 | | NIST Webbook |
| tb | 560.90 | K | Joback Method |
| tc | 753.45 | K | Joback Method |
| tf | 327.35 | K | Joback Method |
| vc | 0.617 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 357.75 | J/mol×K | 560.90 | Joback Method |
| cpg | 369.77 | J/mol×K | 592.99 | Joback Method |
| cpg | 381.16 | J/mol×K | 625.08 | Joback Method |
| cpg | 391.95 | J/mol×K | 657.17 | Joback Method |
| cpg | 402.16 | J/mol×K | 689.26 | Joback Method |
| cpg | 411.81 | J/mol×K | 721.36 | Joback Method |
| cpg | 420.91 | J/mol×K | 753.45 | 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=U415226&Units=SI |

# 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |