# Cyclobutanecarboxamide, N,N-dihexyl-

**Inchi:** InChI=1S/C17H33NO/c1-3-5-7-9-14-18(15-10-8-6-4-2)17(19)16-12-11-13-16/h16H,3-15H
**InchiKey:** YDNRDDVTKFLGOD-UHFFFAOYSA-N
**Formula:** C17H33NO
**SMILES:** CCCCCCN(CCCCCC)C(=O)C1CCC1
**Mol. weight [g/mol]:** 267.45

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 122.77 | kJ/mol | Joback Method |
| hf | -372.62 | kJ/mol | Joback Method |
| hfus | 40.44 | kJ/mol | Joback Method |
| hvap | 62.31 | kJ/mol | Joback Method |
| log10ws | -4.94 | | Crippen Method |
| logp | 4.776 | | Crippen Method |
| mcvol | 251.080 | ml/mol | McGowan Method |
| pc | 1441.35 | kPa | Joback Method |
| rinpol | 1925.00 | | NIST Webbook |
| rinpol | 1925.00 | | NIST Webbook |
| tb | 665.68 | K | Joback Method |
| tc | 844.22 | K | Joback Method |
| tf | 378.17 | K | Joback Method |
| vc | 0.961 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 731.59 | J/mol×K | 665.68 | Joback Method |
| cpg | 751.43 | J/mol×K | 695.44 | Joback Method |
| cpg | 770.27 | J/mol×K | 725.19 | Joback Method |
| cpg | 788.15 | J/mol×K | 754.95 | Joback Method |
| cpg | 805.12 | J/mol×K | 784.71 | Joback Method |
| cpg | 821.22 | J/mol×K | 814.46 | Joback Method |
| cpg | 836.51 | J/mol×K | 844.22 | Joback Method |

# Sources

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|---|---|
| **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=U308598&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 |