# Cyclopentanecarboxamide, N-(3-methylphenyl)-

**Inchi:** InChI=1S/C13H17NO/c1-10-5-4-8-12(9-10)14-13(15)11-6-2-3-7-11/h4-5,8-9,11H,2-3,6-7
**InchiKey:** UKLIDCZVVSZTGM-UHFFFAOYSA-N
**Formula:** C13H17NO
**SMILES:** Cc1cccc(NC(=O)C2CCCC2)c1
**Mol. weight [g/mol]:** 203.28

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 158.38 | kJ/mol | Joback Method |
| hf | -85.22 | kJ/mol | Joback Method |
| hfus | 23.71 | kJ/mol | Joback Method |
| hvap | 60.91 | kJ/mol | Joback Method |
| log10ws | -3.48 | | Crippen Method |
| logp | 3.124 | | Crippen Method |
| mcvol | 170.960 | ml/mol | McGowan Method |
| pc | 2787.66 | kPa | Joback Method |
| rinpol | 1867.00 | | NIST Webbook |
| tb | 647.82 | K | Joback Method |
| tc | 882.27 | K | Joback Method |
| tf | 388.70 | K | Joback Method |
| vc | 0.637 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 459.08 | J/mol×K | 647.82 | Joback Method |
| cpg | 476.80 | J/mol×K | 686.90 | Joback Method |
| cpg | 493.22 | J/mol×K | 725.97 | Joback Method |
| cpg | 508.42 | J/mol×K | 765.05 | Joback Method |
| cpg | 522.45 | J/mol×K | 804.12 | Joback Method |
| cpg | 535.39 | J/mol×K | 843.20 | Joback Method |
| cpg | 547.31 | J/mol×K | 882.27 | 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=U307025&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 |