# Acetamide, N-(4-methoxyphenyl)-2-methoxy-

**Inchi:** InChI=1S/C10H13NO3/c1-13-7-10(12)11-8-3-5-9(14-2)6-4-8/h3-6H,7H2,1-2H3,(H,11,12)
**InchiKey:** TTZFXJGNEYPIBY-UHFFFAOYSA-N
**Formula:** C10H13NO3
**SMILES:** COCC(=O)Nc1ccc(OC)cc1
**Mol. weight [g/mol]:** 195.22

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -113.43 | kJ/mol | Joback Method |
| hf | -348.22 | kJ/mol | Joback Method |
| hfus | 24.38 | kJ/mol | Joback Method |
| hvap | 58.79 | kJ/mol | Joback Method |
| log10ws | -1.30 | | Crippen Method |
| logp | 1.280 | | Crippen Method |
| mcvol | 151.290 | ml/mol | McGowan Method |
| pc | 3018.96 | kPa | Joback Method |
| rinpol | 1719.00 | | NIST Webbook |
| rinpol | 1719.00 | | NIST Webbook |
| tb | 608.74 | K | Joback Method |
| tc | 820.04 | K | Joback Method |
| tf | 388.45 | K | Joback Method |
| vc | 0.565 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 371.89 | J/mol×K | 608.74 | Joback Method |
| cpg | 384.97 | J/mol×K | 643.96 | Joback Method |
| cpg | 397.32 | J/mol×K | 679.17 | Joback Method |
| cpg | 408.96 | J/mol×K | 714.39 | Joback Method |
| cpg | 419.87 | J/mol×K | 749.61 | Joback Method |
| cpg | 430.05 | J/mol×K | 784.82 | Joback Method |
| cpg | 439.52 | J/mol×K | 820.04 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U307259&Units=SI |
| **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 |

# 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 |