# Sarcosine, N-cyclopropylcarbonyl-, butyl ester

**Inchi:** InChI=1S/C11H19NO3/c1-3-4-7-15-10(13)8-12(2)11(14)9-5-6-9/h9H,3-8H2,1-2H3
**InchiKey:** WQTOMRSEBYPBMK-UHFFFAOYSA-N
**Formula:** C11H19NO3
**SMILES:** CCCCOC(=O)CN(C)C(=O)C1CC1
**Mol. weight [g/mol]:** 213.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -149.57 | kJ/mol | Joback Method |
| hf | -487.42 | kJ/mol | Joback Method |
| hfus | 29.79 | kJ/mol | Joback Method |
| hvap | 57.94 | kJ/mol | Joback Method |
| log10ws | -1.29 | | Crippen Method |
| logp | 1.198 | | Crippen Method |
| mcvol | 173.980 | ml/mol | McGowan Method |
| pc | 2410.00 | kPa | Joback Method |
| rinpol | 1650.00 | | NIST Webbook |
| rinpol | 1650.00 | | NIST Webbook |
| tb | 600.42 | K | Joback Method |
| tc | 789.27 | K | Joback Method |
| tf | 386.23 | K | Joback Method |
| vc | 0.656 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 461.44 | J/mol×K | 600.42 | Joback Method |
| cpg | 476.50 | J/mol×K | 631.89 | Joback Method |
| cpg | 490.73 | J/mol×K | 663.37 | Joback Method |
| cpg | 504.19 | J/mol×K | 694.84 | Joback Method |
| cpg | 516.90 | J/mol×K | 726.32 | Joback Method |
| cpg | 528.89 | J/mol×K | 757.79 | Joback Method |
| cpg | 540.22 | J/mol×K | 789.27 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U321188&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 |