# Sarcosine, N-cyclopropylcarbonyl-, undecyl ester

**Inchi:** InChI=1S/C18H33NO3/c1-3-4-5-6-7-8-9-10-11-14-22-17(20)15-19(2)18(21)16-12-13-16/l
**InchiKey:** UDIZCIRHZOEJBN-UHFFFAOYSA-N
**Formula:** C18H33NO3
**SMILES:** CCCCCCCCCCCOC(=O)CN(C)C(=O)C1CC1
**Mol. weight [g/mol]:** 311.46

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -90.63 | kJ/mol | Joback Method |
| hf | -631.90 | kJ/mol | Joback Method |
| hfus | 47.92 | kJ/mol | Joback Method |
| hvap | 73.52 | kJ/mol | Joback Method |
| log10ws | -4.22 | | Crippen Method |
| logp | 3.929 | | Crippen Method |
| mcvol | 272.610 | ml/mol | McGowan Method |
| pc | 1362.64 | kPa | Joback Method |
| rinpol | 2370.00 | | NIST Webbook |
| rinpol | 2370.00 | | NIST Webbook |
| tb | 760.58 | K | Joback Method |
| tc | 943.78 | K | Joback Method |
| tf | 465.12 | K | Joback Method |
| vc | 1.048 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 845.71 | J/mol×K | 760.58 | Joback Method |
| cpg | 863.50 | J/mol×K | 791.11 | Joback Method |
| cpg | 880.35 | J/mol×K | 821.65 | Joback Method |
| cpg | 896.30 | J/mol×K | 852.18 | Joback Method |
| cpg | 911.40 | J/mol×K | 882.71 | Joback Method |
| cpg | 925.68 | J/mol×K | 913.25 | Joback Method |
| cpg | 939.21 | J/mol×K | 943.78 | Joback Method |

# Sources

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|---|---|
| **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=U321195&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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 |

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