# Methanol, cycloundecane-

**Other names:** cycloundecanemethanol
**Inchi:** InChI=1S/C12H24O/c13-11-12-9-7-5-3-1-2-4-6-8-10-12/h12-13H,1-11H2
**InchiKey:** XSFJMMWTLXMXTK-UHFFFAOYSA-N
**Formula:** C12H24O
**SMILES:** OCC1CCCCCCCCCC1
**Mol. weight [g/mol]:** 184.32
**CAS:** 29518-02-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -122.71 | kJ/mol | Joback Method |
| hf | -419.72 | kJ/mol | Joback Method |
| hfus | 12.26 | kJ/mol | Joback Method |
| hvap | 60.27 | kJ/mol | Joback Method |
| log10ws | -3.76 | | Crippen Method |
| logp | 3.509 | | Crippen Method |
| mcvol | 174.950 | ml/mol | McGowan Method |
| pc | 2635.25 | kPa | Joback Method |
| tb | 607.04 | K | Joback Method |
| tc | 820.42 | K | Joback Method |
| tf | 275.60 | K | Joback Method |
| vc | 0.620 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 479.01 | J/mol×K | 607.04 | Joback Method |
| cpg | 501.00 | J/mol×K | 642.60 | Joback Method |
| cpg | 521.71 | J/mol×K | 678.17 | Joback Method |
| cpg | 541.14 | J/mol×K | 713.73 | Joback Method |
| cpg | 559.30 | J/mol×K | 749.30 | Joback Method |
| cpg | 576.18 | J/mol×K | 784.86 | Joback Method |
| cpg | 591.78 | J/mol×K | 820.42 | Joback Method |
| dvisc | 0.1127386 | Pa×s | 275.60 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0080771 | Pa×s | 330.84 | Joback Method |
| dvisc | 0.0012304 | Pa×s | 386.08 | Joback Method |
| dvisc | 0.0003002 | Pa×s | 441.32 | Joback Method |
| dvisc | 0.0001002 | Pa×s | 496.56 | Joback Method |
| dvisc | 0.0000417 | Pa×s | 551.80 | Joback Method |
| dvisc | 0.0000203 | Pa×s | 607.04 | Joback Method |

# Sources

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|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C29518023&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 |
| **dvisc:** | Dynamic viscosity |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |