# 2-Propanol, 1-[1-methyl-2-(2-propenyloxy)ethoxy]-

**Inchi:** InChI=1S/C9H18O3/c1-4-5-11-7-9(3)12-6-8(2)10/h4,8-10H,1,5-7H2,2-3H3
**InchiKey:** PDCBTSVBFUQBNN-UHFFFAOYSA-N
**Formula:** C9H18O3
**SMILES:** C=CCOCC(C)OCC(C)O
**Mol. weight [g/mol]:** 174.24
**CAS:** 55956-25-7

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -238.96 | kJ/mol | Joback Method |
| hf | -530.89 | kJ/mol | Joback Method |
| hfus | 17.20 | kJ/mol | Joback Method |
| hvap | 55.68 | kJ/mol | Joback Method |
| log10ws | -1.11 | | Crippen Method |
| logp | 0.975 | | Crippen Method |
| mcvol | 150.980 | ml/mol | McGowan Method |
| pc | 2587.22 | kPa | Joback Method |
| tb | 538.14 | K | Joback Method |
| tc | 705.70 | K | Joback Method |
| tf | 264.71 | K | Joback Method |
| vc | 0.564 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 366.74 | J/mol×K | 538.14 | Joback Method |
| cpg | 378.87 | J/mol×K | 566.07 | Joback Method |
| cpg | 390.57 | J/mol×K | 593.99 | Joback Method |
| cpg | 401.83 | J/mol×K | 621.92 | Joback Method |
| cpg | 412.64 | J/mol×K | 649.85 | Joback Method |
| cpg | 423.03 | J/mol×K | 677.77 | Joback Method |
| cpg | 432.98 | J/mol×K | 705.70 | Joback Method |
| dvisc | 0.0307994 | Pa×s | 264.71 | Joback Method |
| dvisc | 0.0054177 | Pa×s | 310.28 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0014873 | Pa×s | 355.85 | Joback Method |
| dvisc | 0.0005476 | Pa×s | 401.43 | Joback Method |
| dvisc | 0.0002472 | Pa×s | 447.00 | Joback Method |
| dvisc | 0.0001292 | Pa×s | 492.57 | Joback Method |
| dvisc | 0.0000754 | Pa×s | 538.14 | Joback Method |

# Sources

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|---|---|
| **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=C55956257&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |