# 1-[(1-Propoxypropan-2-yl)oxy]propan-2-yl acetate

**Inchi:** InChI=1S/C11H22O4/c1-5-6-13-7-9(2)14-8-10(3)15-11(4)12/h9-10H,5-8H2,1-4H3
**InchiKey:** PNBCGVPSRHMZDO-UHFFFAOYSA-N
**Formula:** C11H22O4
**SMILES:** CCCOCC(C)OCC(C)OC(C)=O
**Mol. weight [g/mol]:** 218.29

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -407.06 | kJ/mol | Joback Method |
| hf | -790.17 | kJ/mol | Joback Method |
| hfus | 22.36 | kJ/mol | Joback Method |
| hvap | 53.28 | kJ/mol | Joback Method |
| log10ws | -1.69 | | Crippen Method |
| logp | 1.770 | | Crippen Method |
| mcvol | 185.030 | ml/mol | McGowan Method |
| pc | 1982.35 | kPa | Joback Method |
| rinpol | 1312.00 | | NIST Webbook |
| rinpol | 1312.00 | | NIST Webbook |
| tb | 571.33 | K | Joback Method |
| tc | 747.59 | K | Joback Method |
| tf | 300.35 | K | Joback Method |
| vc | 0.700 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 470.00 | J/mol×K | 571.33 | Joback Method |
| cpg | 485.22 | J/mol×K | 600.71 | Joback Method |
| cpg | 499.87 | J/mol×K | 630.08 | Joback Method |
| cpg | 513.94 | J/mol×K | 659.46 | Joback Method |
| cpg | 527.44 | J/mol×K | 688.84 | Joback Method |
| cpg | 540.34 | J/mol×K | 718.21 | Joback Method |
| cpg | 552.64 | J/mol×K | 747.59 | Joback Method |
| dvisc | 0.0028826 | Pa×s | 300.35 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0011893 | Pa×s | 345.51 | Joback Method |
| dvisc | 0.0006021 | Pa×s | 390.68 | Joback Method |
| dvisc | 0.0003510 | Pa×s | 435.84 | Joback Method |
| dvisc | 0.0002265 | Pa×s | 481.00 | Joback Method |
| dvisc | 0.0001575 | Pa×s | 526.17 | Joback Method |
| dvisc | 0.0001160 | Pa×s | 571.33 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U378331&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 |

# 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |