# Triethylene glycol, monoallyl ether, acetate

**Inchi:** InChI=1S/C11H20O5/c1-3-4-13-5-6-14-7-8-15-9-10-16-11(2)12/h3H,1,4-10H2,2H3
**InchiKey:** MHLDUOGECSISSO-UHFFFAOYSA-N
**Formula:** C11H20O5
**SMILES:** C=CCOCCOCCOCCOC(C)=O
**Mol. weight [g/mol]:** 232.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -419.34 | kJ/mol | Joback Method |
| hf | -786.40 | kJ/mol | Joback Method |
| hfus | 29.32 | kJ/mol | Joback Method |
| hvap | 55.80 | kJ/mol | Joback Method |
| log10ws | -0.41 | | Crippen Method |
| logp | 0.785 | | Crippen Method |
| mcvol | 186.600 | ml/mol | McGowan Method |
| pc | 1998.33 | kPa | Joback Method |
| rinpol | 1527.00 | | NIST Webbook |
| rinpol | 1531.00 | | NIST Webbook |
| rinpol | 1527.00 | | NIST Webbook |
| rinpol | 1529.00 | | NIST Webbook |
| rinpol | 1524.00 | | NIST Webbook |
| rinpol | 1530.00 | | NIST Webbook |
| rinpol | 1524.00 | | NIST Webbook |
| rinpol | 1526.00 | | NIST Webbook |
| rinpol | 1526.00 | | NIST Webbook |
| rinpol | 1522.00 | | NIST Webbook |
| rinpol | 1529.00 | | NIST Webbook |
| rinpol | 1526.00 | | NIST Webbook |
| rinpol | 1529.00 | | NIST Webbook |
| rinpol | 1530.00 | | NIST Webbook |
| tb | 591.31 | K | Joback Method |
| tc | 763.89 | K | Joback Method |
| tf | 350.82 | K | Joback Method |
| vc | 0.711 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 475.59 | J/mol×K | 591.31 | Joback Method |
| cpg | 489.53 | J/mol×K | 620.07 | Joback Method |
| cpg | 502.95 | J/mol×K | 648.84 | Joback Method |
| cpg | 515.87 | J/mol×K | 677.60 | Joback Method |
| cpg | 528.25 | J/mol×K | 706.36 | Joback Method |
| cpg | 540.09 | J/mol×K | 735.12 | Joback Method |
| cpg | 551.38 | J/mol×K | 763.89 | Joback Method |
| dvisc | 0.0011186 | Pa×s | 350.82 | Joback Method |
| dvisc | 0.0006206 | Pa×s | 390.90 | Joback Method |
| dvisc | 0.0003842 | Pa×s | 430.98 | Joback Method |
| dvisc | 0.0002581 | Pa×s | 471.06 | Joback Method |
| dvisc | 0.0001845 | Pa×s | 511.15 | Joback Method |
| dvisc | 0.0001385 | Pa×s | 551.23 | Joback Method |
| dvisc | 0.0001081 | Pa×s | 591.31 | Joback Method |

# Sources

**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
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R152300&Units=SI

# Legend

**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 |