# Diglycolic acid, di(neopentyl) ester

**Inchi:** InChI=1S/C14H26O5/c1-13(2,3)9-18-11(15)7-17-8-12(16)19-10-14(4,5)6/h7-10H2,1-6H3
**InchiKey:** DMLDCHDCADRPAI-UHFFFAOYSA-N
**Formula:** C14H26O5
**SMILES:** CC(C)(C)COC(=O)COCC(=O)OCC(C)(C)C
**Mol. weight [g/mol]:** 274.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -500.16 | kJ/mol | Joback Method |
| hf | -971.61 | kJ/mol | Joback Method |
| hfus | 23.95 | kJ/mol | Joback Method |
| hvap | 64.89 | kJ/mol | Joback Method |
| log10ws | -2.01 | | Crippen Method |
| logp | 2.182 | | Crippen Method |
| mcvol | 228.870 | ml/mol | McGowan Method |
| pc | 1667.33 | kPa | Joback Method |
| rinpol | 2010.00 | | NIST Webbook |
| rinpol | 2010.00 | | NIST Webbook |
| tb | 688.26 | K | Joback Method |
| tc | 878.44 | K | Joback Method |
| tf | 418.93 | K | Joback Method |
| vc | 0.864 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 655.90 | J/mol×K | 688.26 | Joback Method |
| cpg | 728.09 | J/mol×K | 846.75 | Joback Method |
| cpg | 715.41 | J/mol×K | 815.05 | Joback Method |
| cpg | 701.87 | J/mol×K | 783.35 | Joback Method |
| cpg | 687.45 | J/mol×K | 751.65 | Joback Method |
| cpg | 672.14 | J/mol×K | 719.96 | Joback Method |
| cpg | 739.95 | J/mol×K | 878.44 | Joback Method |
| dvisc | 0.0000658 | Pa×s | 688.26 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000889 | Pa×s | 643.37 | Joback Method |
| dvisc | 0.0001257 | Pa×s | 598.48 | Joback Method |
| dvisc | 0.0001879 | Pa×s | 553.60 | Joback Method |
| dvisc | 0.0003016 | Pa×s | 508.71 | Joback Method |
| dvisc | 0.0005305 | Pa×s | 463.82 | Joback Method |
| dvisc | 0.0010532 | Pa×s | 418.93 | Joback Method |

# Sources

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|---|---|
| **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=U381930&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 |