# Glutaric acid, 2-chlorophenyl propyl ester

**Inchi:** InChI=1S/C14H17ClO4/c1-2-10-18-13(16)8-5-9-14(17)19-12-7-4-3-6-11(12)15/h3-4,6-7H
**InchiKey:** GNGHVVXNLTUQAY-UHFFFAOYSA-N
**Formula:** C14H17ClO4
**SMILES:** CCCOC(=O)CCCC(=O)Oc1ccccc1Cl
**Mol. weight [g/mol]:** 284.74

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -309.99 | kJ/mol | Joback Method |
| hf | -612.57 | kJ/mol | Joback Method |
| hfus | 35.44 | kJ/mol | Joback Method |
| hvap | 72.39 | kJ/mol | Joback Method |
| log10ws | -3.84 | | Crippen Method |
| logp | 3.369 | | Crippen Method |
| mcvol | 211.480 | ml/mol | McGowan Method |
| pc | 2083.12 | kPa | Joback Method |
| rinpol | 2065.00 | | NIST Webbook |
| rinpol | 2065.00 | | NIST Webbook |
| tb | 741.39 | K | Joback Method |
| tc | 950.76 | K | Joback Method |
| tf | 460.72 | K | Joback Method |
| vc | 0.808 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 565.99 | J/mol×K | 741.39 | Joback Method |
| cpg | 623.52 | J/mol×K | 915.86 | Joback Method |
| cpg | 613.81 | J/mol×K | 880.97 | Joback Method |
| cpg | 603.21 | J/mol×K | 846.07 | Joback Method |
| cpg | 591.71 | J/mol×K | 811.18 | Joback Method |
| cpg | 579.31 | J/mol×K | 776.28 | Joback Method |
| cpg | 632.35 | J/mol×K | 950.76 | Joback Method |
| dvisc | 0.0001076 | Pa×s | 741.39 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001353 | Pa×s | 694.61 | Joback Method |
| dvisc | 0.0001757 | Pa×s | 647.83 | Joback Method |
| dvisc | 0.0002378 | Pa×s | 601.06 | Joback Method |
| dvisc | 0.0003387 | Pa×s | 554.28 | Joback Method |
| dvisc | 0.0005150 | Pa×s | 507.50 | Joback Method |
| dvisc | 0.0008524 | Pa×s | 460.72 | Joback Method |

# Sources

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|---|---|
| **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=U358597&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |