# Glutaric acid, di(2-chloro-5-methylphenyl) ester

**Inchi:** InChI=1S/C19H18Cl2O4/c1-12-6-8-14(20)16(10-12)24-18(22)4-3-5-19(23)25-17-11-13(2
**InchiKey:** MKTYSQOZKQLKGN-UHFFFAOYSA-N
**Formula:** C19H18Cl2O4
**SMILES:** Cc1ccc(Cl)c(OC(=O)CCCC(=O)Oc2cc(C)ccc2Cl)c1
**Mol. weight [g/mol]:** 381.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -196.30 | kJ/mol | Joback Method |
| hf | -529.39 | kJ/mol | Joback Method |
| hfus | 45.46 | kJ/mol | Joback Method |
| hvap | 92.17 | kJ/mol | Joback Method |
| log10ws | -6.49 | | Crippen Method |
| logp | 5.292 | | Crippen Method |
| mcvol | 270.410 | ml/mol | McGowan Method |
| pc | 1704.71 | kPa | Joback Method |
| rinpol | 2917.00 | | NIST Webbook |
| rinpol | 2917.00 | | NIST Webbook |
| tb | 934.84 | K | Joback Method |
| tc | 1169.45 | K | Joback Method |
| tf | 610.97 | K | Joback Method |
| vc | 1.030 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 764.29 | J/mol×K | 934.84 | Joback Method |
| cpg | 775.30 | J/mol×K | 973.94 | Joback Method |
| cpg | 785.03 | J/mol×K | 1013.04 | Joback Method |
| cpg | 793.48 | J/mol×K | 1052.15 | Joback Method |
| cpg | 800.70 | J/mol×K | 1091.25 | Joback Method |
| cpg | 806.69 | J/mol×K | 1130.35 | Joback Method |
| cpg | 811.48 | J/mol×K | 1169.45 | Joback Method |
| dvisc | 0.0002867 | Pa×s | 610.97 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001914 | Pa×s | 664.95 | Joback Method |
| dvisc | 0.0001358 | Pa×s | 718.93 | Joback Method |
| dvisc | 0.0001011 | Pa×s | 772.90 | Joback Method |
| dvisc | 0.0000782 | Pa×s | 826.88 | Joback Method |
| dvisc | 0.0000624 | Pa×s | 880.86 | Joback Method |
| dvisc | 0.0000511 | Pa×s | 934.84 | Joback Method |

# Sources

| | |
|---|---|
| **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=U359342&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 |