# Succinic acid, di((2-chlorocyclohexyl)methyl) ester

**Inchi:** InChI=1S/C18H28Cl2O4/c19-15-7-3-1-5-13(15)11-23-17(21)9-10-18(22)24-12-14-6-2-4-8
**InchiKey:** CQIPOJANFWACKZ-UHFFFAOYSA-N
**Formula:** C18H28Cl2O4
**SMILES:** O=C(CCC(=O)OCC1CCCCC1Cl)OCC1CCCCC1Cl
**Mol. weight [g/mol]:** 379.32

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -357.54 | kJ/mol | Joback Method |
| hf | -867.97 | kJ/mol | Joback Method |
| hfus | 42.16 | kJ/mol | Joback Method |
| hvap | 82.98 | kJ/mol | Joback Method |
| log10ws | -4.92 | | Crippen Method |
| logp | 4.448 | | Crippen Method |
| mcvol | 282.120 | ml/mol | McGowan Method |
| pc | 1497.67 | kPa | Joback Method |
| rinpol | 2885.00 | | NIST Webbook |
| rinpol | 2885.00 | | NIST Webbook |
| tb | 868.44 | K | Joback Method |
| tc | 1092.31 | K | Joback Method |
| tf | 503.06 | K | Joback Method |
| vc | 1.054 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 908.94 | J/mol×K | 868.44 | Joback Method |
| cpg | 979.22 | J/mol×K | 1055.00 | Joback Method |
| cpg | 968.63 | J/mol×K | 1017.69 | Joback Method |
| cpg | 956.33 | J/mol×K | 980.37 | Joback Method |
| cpg | 942.29 | J/mol×K | 943.06 | Joback Method |
| cpg | 926.50 | J/mol×K | 905.75 | Joback Method |
| cpg | 988.11 | J/mol×K | 1092.31 | Joback Method |
| dvisc | 0.0000940 | Pa×s | 868.44 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001203 | Pa×s | 807.54 | Joback Method |
| dvisc | 0.0001602 | Pa×s | 746.65 | Joback Method |
| dvisc | 0.0002245 | Pa×s | 685.75 | Joback Method |
| dvisc | 0.0003360 | Pa×s | 624.85 | Joback Method |
| dvisc | 0.0005487 | Pa×s | 563.96 | Joback Method |
| dvisc | 0.0010090 | Pa×s | 503.06 | 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=U391405&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 |