# Succinic acid, cyclohexylmethyl 2,6-dichlorophenyl ester

**Inchi:** InChI=1S/C17H20Cl2O4/c18-13-7-4-8-14(19)17(13)23-16(21)10-9-15(20)22-11-12-5-2-1

**InchiKey:** SPKXQYDWSVOOMW-UHFFFAOYSA-N

**Formula:** C17H20Cl2O4

**SMILES:** O=C(CCC(=O)Oc1c(Cl)cccc1Cl)OCC1CCCCC1

**Mol. weight [g/mol]:** 359.24

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -281.84 | kJ/mol | Joback Method |
| hf | -647.38 | kJ/mol | Joback Method |
| hfus | 38.85 | kJ/mol | Joback Method |
| hvap | 84.55 | kJ/mol | Joback Method |
| log10ws | -5.44 | | Crippen Method |
| logp | 4.803 | | Crippen Method |
| mcvol | 255.130 | ml/mol | McGowan Method |
| pc | 1848.33 | kPa | Joback Method |
| rinpol | 2614.00 | | NIST Webbook |
| rinpol | 2614.00 | | NIST Webbook |
| tb | 871.99 | K | Joback Method |
| tc | 1104.60 | K | Joback Method |
| tf | 544.35 | K | Joback Method |
| vc | 0.959 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 748.31 | J/mol×K | 871.99 | Joback Method |
| cpg | 803.12 | J/mol×K | 1065.83 | Joback Method |
| cpg | 794.94 | J/mol×K | 1027.06 | Joback Method |
| cpg | 785.39 | J/mol×K | 988.30 | Joback Method |
| cpg | 774.46 | J/mol×K | 949.53 | Joback Method |
| cpg | 762.10 | J/mol×K | 910.76 | Joback Method |
| cpg | 809.96 | J/mol×K | 1104.60 | Joback Method |
| dvisc | 0.0000656 | Pa×s | 871.99 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000829 | Pa×s | 817.38 | Joback Method |
| dvisc | 0.0001082 | Pa×s | 762.78 | Joback Method |
| dvisc | 0.0001472 | Pa×s | 708.17 | Joback Method |
| dvisc | 0.0002109 | Pa×s | 653.56 | Joback Method |
| dvisc | 0.0003225 | Pa×s | 598.96 | Joback Method |
| dvisc | 0.0005372 | Pa×s | 544.35 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U389868&Units=SI |
| **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 |

# Legend

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|---|---|
| **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 |