# Succinic acid, di(4-chlorophenethyl) ester

**Inchi:** InChI=1S/C20H20Cl2O4/c21-17-5-1-15(2-6-17)11-13-25-19(23)9-10-20(24)26-14-12-16-
**InchiKey:** VTYOLKIODPTWII-UHFFFAOYSA-N
**Formula:** C20H20Cl2O4
**SMILES:** O=C(CCC(=O)OCCc1ccc(Cl)cc1)OCCc1ccc(Cl)cc1
**Mol. weight [g/mol]:** 395.28

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -168.62 | kJ/mol | Joback Method |
| hf | -527.09 | kJ/mol | Joback Method |
| hfus | 48.83 | kJ/mol | Joback Method |
| hvap | 93.07 | kJ/mol | Joback Method |
| log10ws | -5.50 | | Crippen Method |
| logp | 4.645 | | Crippen Method |
| mcvol | 284.500 | ml/mol | McGowan Method |
| pc | 1615.47 | kPa | Joback Method |
| rinpol | 2997.00 | | NIST Webbook |
| rinpol | 2997.00 | | NIST Webbook |
| tb | 947.76 | K | Joback Method |
| tc | 1179.66 | K | Joback Method |
| tf | 597.20 | K | Joback Method |
| vc | 1.085 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 824.58 | J/mol×K | 947.76 | Joback Method |
| cpg | 835.91 | J/mol×K | 986.41 | Joback Method |
| cpg | 845.98 | J/mol×K | 1025.06 | Joback Method |
| cpg | 854.83 | J/mol×K | 1063.71 | Joback Method |
| cpg | 862.49 | J/mol×K | 1102.36 | Joback Method |
| cpg | 869.01 | J/mol×K | 1141.01 | Joback Method |
| cpg | 874.43 | J/mol×K | 1179.66 | Joback Method |
| dvisc | 0.0003147 | Pa×s | 597.20 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001941 | Pa×s | 655.63 | Joback Method |
| dvisc | 0.0001296 | Pa×s | 714.05 | Joback Method |
| dvisc | 0.0000920 | Pa×s | 772.48 | Joback Method |
| dvisc | 0.0000685 | Pa×s | 830.91 | Joback Method |
| dvisc | 0.0000530 | Pa×s | 889.33 | Joback Method |
| dvisc | 0.0000424 | Pa×s | 947.76 | Joback Method |

# Sources

| | |
|---|---|
| **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=U381530&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |