# Succinic acid, 2-chlorophenyl 3,4-dimethylphenyl ester

**Inchi:** InChI=1S/C18H17ClO4/c1-12-7-8-14(11-13(12)2)22-17(20)9-10-18(21)23-16-6-4-3-5-15(

**InchiKey:** CRVNMWHNXOHUAI-UHFFFAOYSA-N

**Formula:** C18H17ClO4

**SMILES:** Cc1ccc(OC(=O)CCC(=O)Oc2ccccc2Cl)cc1C

**Mol. weight [g/mol]:** 332.78

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -183.16 | kJ/mol | Joback Method |
| hf | -481.54 | kJ/mol | Joback Method |
| hfus | 39.06 | kJ/mol | Joback Method |
| hvap | 84.90 | kJ/mol | Joback Method |
| log10ws | -5.38 | | Crippen Method |
| logp | 4.248 | | Crippen Method |
| mcvol | 244.080 | ml/mol | McGowan Method |
| pc | 1933.83 | kPa | Joback Method |
| rinpol | 2683.00 | | NIST Webbook |
| tb | 869.55 | K | Joback Method |
| tc | 1102.44 | K | Joback Method |
| tf | 557.26 | K | Joback Method |
| vc | 0.924 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 688.43 | J/mol×K | 869.55 | Joback Method |
| cpg | 700.80 | J/mol×K | 908.37 | Joback Method |
| cpg | 711.92 | J/mol×K | 947.18 | Joback Method |
| cpg | 721.82 | J/mol×K | 986.00 | Joback Method |
| cpg | 730.53 | J/mol×K | 1024.81 | Joback Method |
| cpg | 738.05 | J/mol×K | 1063.63 | Joback Method |
| cpg | 744.41 | J/mol×K | 1102.44 | Joback Method |
| dvisc | 0.0004102 | Pa×s | 557.26 | Joback Method |
| dvisc | 0.0002660 | Pa×s | 609.31 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001846 | Pa×s | 661.36 | Joback Method |
| dvisc | 0.0001352 | Pa×s | 713.40 | Joback Method |
| dvisc | 0.0001033 | Pa×s | 765.45 | Joback Method |
| dvisc | 0.0000816 | Pa×s | 817.50 | Joback Method |
| dvisc | 0.0000664 | Pa×s | 869.55 | 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=U357553&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 |