# Succinic acid, 2,3-dichlorophenyl 2,4-dimethylpent-3-yl ester

**Inchi:** InChI=1S/C17H22Cl2O4/c1-10(2)17(11(3)4)23-15(21)9-8-14(20)22-13-7-5-6-12(18)16(13

**InchiKey:** TXBCZXVXAZCKBL-UHFFFAOYSA-N

**Formula:** C17H22Cl2O4

**SMILES:** CC(C)C(OC(=O)CCC(=O)Oc1cccc(Cl)c1Cl)C(C)C

**Mol. weight [g/mol]:** 361.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -313.61 | kJ/mol | Joback Method |
| hf | -717.54 | kJ/mol | Joback Method |
| hfus | 36.45 | kJ/mol | Joback Method |
| hvap | 82.95 | kJ/mol | Joback Method |
| log10ws | -5.41 | | Crippen Method |
| logp | 4.903 | | Crippen Method |
| mcvol | 265.990 | ml/mol | McGowan Method |
| pc | 1591.08 | kPa | Joback Method |
| rinpol | 2407.00 | | NIST Webbook |
| rinpol | 2407.00 | | NIST Webbook |
| tb | 851.12 | K | Joback Method |
| tc | 1068.00 | K | Joback Method |
| tf | 491.97 | K | Joback Method |
| vc | 1.008 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 756.93 | J/mol×K | 851.12 | Joback Method |
| cpg | 770.37 | J/mol×K | 887.27 | Joback Method |
| cpg | 782.66 | J/mol×K | 923.41 | Joback Method |
| cpg | 793.81 | J/mol×K | 959.56 | Joback Method |
| cpg | 803.85 | J/mol×K | 995.71 | Joback Method |
| cpg | 812.77 | J/mol×K | 1031.86 | Joback Method |
| cpg | 820.61 | J/mol×K | 1068.00 | Joback Method |
| dvisc | 0.0006576 | Pa×s | 491.97 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0003368 | Pa×s | 551.83 | Joback Method |
| dvisc | 0.0001966 | Pa×s | 611.69 | Joback Method |
| dvisc | 0.0001264 | Pa×s | 671.54 | Joback Method |
| dvisc | 0.0000873 | Pa×s | 731.40 | Joback Method |
| dvisc | 0.0000638 | Pa×s | 791.26 | Joback Method |
| dvisc | 0.0000487 | Pa×s | 851.12 | 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=U390512&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |