# Succinic acid, 2,3-dichlorophenyl 2-methoxyphenyl ester

**Inchi:** InChI=1S/C17H14Cl2O5/c1-22-12-6-2-3-7-13(12)23-15(20)9-10-16(21)24-14-8-4-5-11(18

**InchiKey:** DZUMVDLRRQNNOD-UHFFFAOYSA-N

**Formula:** C17H14Cl2O5

**SMILES:** COc1ccccc1OC(=O)CCC(=O)Oc1cccc(Cl)c1Cl

**Mol. weight [g/mol]:** 369.20

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -308.51 | kJ/mol | Joback Method |
| hf | -608.86 | kJ/mol | Joback Method |
| hfus | 41.86 | kJ/mol | Joback Method |
| hvap | 89.47 | kJ/mol | Joback Method |
| log10ws | -5.24 | | Crippen Method |
| logp | 4.293 | | Crippen Method |
| mcvol | 248.100 | ml/mol | McGowan Method |
| pc | 2007.30 | kPa | Joback Method |
| rinpol | 2814.00 | | NIST Webbook |
| rinpol | 2814.00 | | NIST Webbook |
| tb | 906.52 | K | Joback Method |
| tc | 1143.16 | K | Joback Method |
| tf | 598.14 | K | Joback Method |
| vc | 0.935 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 678.45 | J/mol×K | 906.52 | Joback Method |
| cpg | 715.84 | J/mol×K | 1103.72 | Joback Method |
| cpg | 711.00 | J/mol×K | 1064.28 | Joback Method |
| cpg | 704.84 | J/mol×K | 1024.84 | Joback Method |
| cpg | 697.36 | J/mol×K | 985.40 | Joback Method |
| cpg | 688.56 | J/mol×K | 945.96 | Joback Method |
| cpg | 719.36 | J/mol×K | 1143.16 | Joback Method |
| dvisc | 0.0000497 | Pa×s | 906.52 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000607 | Pa×s | 855.12 | Joback Method |
| dvisc | 0.0000761 | Pa×s | 803.73 | Joback Method |
| dvisc | 0.0000984 | Pa×s | 752.33 | Joback Method |
| dvisc | 0.0001322 | Pa×s | 700.93 | Joback Method |
| dvisc | 0.0001860 | Pa×s | 649.54 | Joback Method |
| dvisc | 0.0002776 | Pa×s | 598.14 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U389716&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# 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 |