# Succinic acid, 2,2-dichloroethyl 3-methylbut-3-en-1-yl ester

**Inchi:** InChI=1S/C11H16Cl2O4/c1-8(2)5-6-16-10(14)3-4-11(15)17-7-9(12)13/h9H,1,3-7H2,2H3

**InchiKey:** OLEUXFIBVUKTLN-UHFFFAOYSA-N

**Formula:** C11H16Cl2O4

**SMILES:** C=C(C)CCOC(=O)CCC(=O)OCC(Cl)Cl

**Mol. weight [g/mol]:** 283.15

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -373.11 | kJ/mol | Joback Method |
| hf | -681.09 | kJ/mol | Joback Method |
| hfus | 32.10 | kJ/mol | Joback Method |
| hvap | 66.18 | kJ/mol | Joback Method |
| log10ws | -2.92 | | Crippen Method |
| logp | 2.623 | | Crippen Method |
| mcvol | 200.910 | ml/mol | McGowan Method |
| pc | 2064.24 | kPa | Joback Method |
| rinpol | 1768.00 | | NIST Webbook |
| rinpol | 1768.00 | | NIST Webbook |
| tb | 674.64 | K | Joback Method |
| tc | 870.24 | K | Joback Method |
| tf | 387.17 | K | Joback Method |
| vc | 0.773 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 498.00 | J/mol×K | 674.64 | Joback Method |
| cpg | 510.26 | J/mol×K | 707.24 | Joback Method |
| cpg | 521.82 | J/mol×K | 739.84 | Joback Method |
| cpg | 532.70 | J/mol×K | 772.44 | Joback Method |
| cpg | 542.90 | J/mol×K | 805.04 | Joback Method |
| cpg | 552.44 | J/mol×K | 837.64 | Joback Method |
| cpg | 561.31 | J/mol×K | 870.24 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U391133&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

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |