# Succinic acid, 2,3-dichlorophenyl pent-4-en-1-yl ester

**Inchi:** InChI=1S/C15H16Cl2O4/c1-2-3-4-10-20-13(18)8-9-14(19)21-12-7-5-6-11(16)15(12)17/h2

**InchiKey:** VQMVLCVRDPKSDP-UHFFFAOYSA-N

**Formula:** C15H16Cl2O4

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

**Mol. weight [g/mol]:** 331.19

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -235.29 | kJ/mol | Joback Method |
| hf | -534.99 | kJ/mol | Joback Method |
| hfus | 40.56 | kJ/mol | Joback Method |
| hvap | 79.00 | kJ/mol | Joback Method |
| log10ws | -4.80 | | Crippen Method |
| logp | 4.188 | | Crippen Method |
| mcvol | 233.510 | ml/mol | McGowan Method |
| pc | 1895.30 | kPa | Joback Method |
| rinpol | 2331.00 | | NIST Webbook |
| rinpol | 2331.00 | | NIST Webbook |
| tb | 803.36 | K | Joback Method |
| tc | 1017.75 | K | Joback Method |
| tf | 512.67 | K | Joback Method |
| vc | 0.894 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 617.36 | J/mol×K | 803.36 | Joback Method |
| cpg | 629.29 | J/mol×K | 839.09 | Joback Method |
| cpg | 640.29 | J/mol×K | 874.82 | Joback Method |
| cpg | 650.37 | J/mol×K | 910.55 | Joback Method |
| cpg | 659.54 | J/mol×K | 946.29 | Joback Method |
| cpg | 667.82 | J/mol×K | 982.02 | Joback Method |
| cpg | 675.22 | J/mol×K | 1017.75 | Joback Method |
| dvisc | 0.0005863 | Pa×s | 512.67 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0003741 | Pa×s | 561.12 | Joback Method |
| dvisc | 0.0002564 | Pa×s | 609.57 | Joback Method |
| dvisc | 0.0001858 | Pa×s | 658.01 | Joback Method |
| dvisc | 0.0001407 | Pa×s | 706.46 | Joback Method |
| dvisc | 0.0001104 | Pa×s | 754.91 | Joback Method |
| dvisc | 0.0000892 | Pa×s | 803.36 | Joback Method |

# Sources

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|---|---|
| **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=U391074&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 |