# Succinic acid, 2-methylpent-3-yl 1-cyclopentylethyl ester

**Inchi:** InChI=1S/C17H30O4/c1-5-15(12(2)3)21-17(19)11-10-16(18)20-13(4)14-8-6-7-9-14/h12-1

**InchiKey:** YEQCGBCDUREYFT-UHFFFAOYSA-N

**Formula:** C17H30O4

**SMILES:** CCC(OC(=O)CCC(=O)OC(C)C1CCCC1)C(C)C

**Mol. weight [g/mol]:** 298.42

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -346.35 | kJ/mol | Joback Method |
| hf | -839.17 | kJ/mol | Joback Method |
| hfus | 28.73 | kJ/mol | Joback Method |
| hvap | 70.84 | kJ/mol | Joback Method |
| log10ws | -4.30 | | Crippen Method |
| logp | 3.866 | | Crippen Method |
| mcvol | 254.410 | ml/mol | McGowan Method |
| pc | 1533.06 | kPa | Joback Method |
| rinpol | 1968.00 | | NIST Webbook |
| rinpol | 1968.00 | | NIST Webbook |
| tb | 754.90 | K | Joback Method |
| tc | 953.50 | K | Joback Method |
| tf | 391.57 | K | Joback Method |
| vc | 0.959 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 784.73 | J/mol×K | 754.90 | Joback Method |
| cpg | 803.45 | J/mol×K | 788.00 | Joback Method |
| cpg | 821.00 | J/mol×K | 821.10 | Joback Method |
| cpg | 837.38 | J/mol×K | 854.20 | Joback Method |
| cpg | 852.63 | J/mol×K | 887.30 | Joback Method |
| cpg | 866.76 | J/mol×K | 920.40 | Joback Method |
| cpg | 879.81 | J/mol×K | 953.50 | Joback Method |
| dvisc | 0.0024677 | Pa×s | 391.57 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0009894 | Pa×s | 452.12 | Joback Method |
| dvisc | 0.0004923 | Pa×s | 512.68 | Joback Method |
| dvisc | 0.0002838 | Pa×s | 573.24 | Joback Method |
| dvisc | 0.0001818 | Pa×s | 633.79 | Joback Method |
| dvisc | 0.0001259 | Pa×s | 694.35 | Joback Method |
| dvisc | 0.0000925 | Pa×s | 754.90 | 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=U391410&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |