# Succinic acid, 2-methyl-3-pentyl 3-pentyl ester

**Inchi:** InChI=1S/C15H28O4/c1-6-12(7-2)18-14(16)9-10-15(17)19-13(8-3)11(4)5/h11-13H,6-10H
**InchiKey:** NLXAIDLDLQDOPK-UHFFFAOYSA-N
**Formula:** C15H28O4
**SMILES:** CCC(CC)OC(=O)CCC(=O)OC(CC)C(C)C
**Mol. weight [g/mol]:** 272.38

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -399.74 | kJ/mol | Joback Method |
| hf | -858.37 | kJ/mol | Joback Method |
| hfus | 29.61 | kJ/mol | Joback Method |
| hvap | 66.13 | kJ/mol | Joback Method |
| log10ws | -3.81 | | Crippen Method |
| logp | 3.476 | | Crippen Method |
| mcvol | 237.090 | ml/mol | McGowan Method |
| pc | 1547.57 | kPa | Joback Method |
| rinpol | 1635.00 | | NIST Webbook |
| rinpol | 1635.00 | | NIST Webbook |
| tb | 693.86 | K | Joback Method |
| tc | 876.51 | K | Joback Method |
| tf | 358.13 | K | Joback Method |
| vc | 0.905 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 678.70 | J/mol×K | 693.86 | Joback Method |
| cpg | 754.34 | J/mol×K | 846.06 | Joback Method |
| cpg | 740.89 | J/mol×K | 815.62 | Joback Method |
| cpg | 726.61 | J/mol×K | 785.18 | Joback Method |
| cpg | 711.49 | J/mol×K | 754.74 | Joback Method |
| cpg | 695.52 | J/mol×K | 724.30 | Joback Method |
| cpg | 766.97 | J/mol×K | 876.51 | Joback Method |
| dvisc | 0.0000837 | Pa×s | 693.86 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001159 | Pa×s | 637.90 | Joback Method |
| dvisc | 0.0001709 | Pa×s | 581.95 | Joback Method |
| dvisc | 0.0002735 | Pa×s | 526.00 | Joback Method |
| dvisc | 0.0004895 | Pa×s | 470.04 | Joback Method |
| dvisc | 0.0010257 | Pa×s | 414.08 | Joback Method |
| dvisc | 0.0027078 | Pa×s | 358.13 | 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=U370910&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 |

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