# Succinic acid, 3-hexyl propyl ester

**Inchi:** InChI=1S/C13H24O4/c1-4-7-11(6-3)17-13(15)9-8-12(14)16-10-5-2/h11H,4-10H2,1-3H3
**InchiKey:** MCVRESBSSDICPU-UHFFFAOYSA-N
**Formula:** C13H24O4
**SMILES:** CCCOC(=O)CCC(=O)OC(CC)CCC
**Mol. weight [g/mol]:** 244.33

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -411.70 | kJ/mol | Joback Method |
| hf | -806.53 | kJ/mol | Joback Method |
| hfus | 31.48 | kJ/mol | Joback Method |
| hvap | 62.46 | kJ/mol | Joback Method |
| log10ws | -3.10 | | Crippen Method |
| logp | 2.842 | | Crippen Method |
| mcvol | 208.910 | ml/mol | McGowan Method |
| pc | 1786.37 | kPa | Joback Method |
| rinpol | 1563.00 | | NIST Webbook |
| rinpol | 1563.00 | | NIST Webbook |
| tb | 648.98 | K | Joback Method |
| tc | 828.08 | K | Joback Method |
| tf | 365.59 | K | Joback Method |
| vc | 0.805 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 568.82 | J/mol×K | 648.98 | Joback Method |
| cpg | 638.71 | J/mol×K | 798.23 | Joback Method |
| cpg | 626.13 | J/mol×K | 768.38 | Joback Method |
| cpg | 612.86 | J/mol×K | 738.53 | Joback Method |
| cpg | 598.88 | J/mol×K | 708.68 | Joback Method |
| cpg | 584.20 | J/mol×K | 678.83 | Joback Method |
| cpg | 650.59 | J/mol×K | 828.08 | Joback Method |
| dvisc | 0.0001258 | Pa×s | 648.98 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001663 | Pa×s | 601.75 | Joback Method |
| dvisc | 0.0002306 | Pa×s | 554.52 | Joback Method |
| dvisc | 0.0003399 | Pa×s | 507.29 | Joback Method |
| dvisc | 0.0005423 | Pa×s | 460.05 | Joback Method |
| dvisc | 0.0009630 | Pa×s | 412.82 | Joback Method |
| dvisc | 0.0019834 | Pa×s | 365.59 | Joback Method |

# Sources

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|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U349441&Units=SI |

# 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 |