# Succinic acid, 3,7-dimethyloct-6-en-1-yl heptadecyl ester

**Inchi:** InChI=1S/C31H58O4/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-26-34-30(32)23-24-3

**InchiKey:** FFMPJYWZEHSRPH-UHFFFAOYSA-N

**Formula:** C31H58O4

**SMILES:** CCCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCCC(C)CCC=C(C)C

**Mol. weight [g/mol]:** 494.79

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -188.47 | kJ/mol | Joback Method |
| hf | -1070.62 | kJ/mol | Joback Method |
| hfus | 76.99 | kJ/mol | Joback Method |
| hvap | 102.56 | kJ/mol | Joback Method |
| log10ws | -10.14 | | Crippen Method |
| logp | 9.497 | | Crippen Method |
| mcvol | 458.230 | ml/mol | McGowan Method |
| pc | 613.60 | kPa | Joback Method |
| rinpol | 3366.00 | | NIST Webbook |
| rinpol | 3366.00 | | NIST Webbook |
| tb | 1064.86 | K | Joback Method |
| tc | 1335.88 | K | Joback Method |
| tf | 549.41 | K | Joback Method |
| vc | 1.794 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1642.42 | J/mol×K | 1064.86 | Joback Method |
| cpg | 1666.59 | J/mol×K | 1110.03 | Joback Method |
| cpg | 1688.47 | J/mol×K | 1155.20 | Joback Method |
| cpg | 1708.19 | J/mol×K | 1200.37 | Joback Method |
| cpg | 1725.92 | J/mol×K | 1245.54 | Joback Method |
| cpg | 1741.81 | J/mol×K | 1290.71 | Joback Method |
| cpg | 1756.01 | J/mol×K | 1335.88 | Joback Method |

# Sources

| | |
|---|---|
| **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=U353350&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |