# Succinic acid, dec-2-yl adamant-2-yl ester

**Inchi:** InChI=1S/C24H40O4/c1-3-4-5-6-7-8-9-17(2)27-22(25)10-11-23(26)28-24-20-13-18-12-19
**InchiKey:** IZBHIMSATAVJGA-UHFFFAOYSA-N
**Formula:** C24H40O4
**SMILES:** CCCCCCCCC(C)OC(=O)CCC(=O)OC1C2CC3CC(C2)CC1C3
**Mol. weight [g/mol]:** 392.57

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -164.35 | kJ/mol | Joback Method |
| hf | -862.01 | kJ/mol | Joback Method |
| hfus | 54.41 | kJ/mol | Joback Method |
| hvap | 86.23 | kJ/mol | Joback Method |
| log10ws | -6.53 | | Crippen Method |
| logp | 5.817 | | Crippen Method |
| mcvol | 331.320 | ml/mol | McGowan Method |
| pc | 1058.95 | kPa | Joback Method |
| rinpol | 2907.00 | | NIST Webbook |
| rinpol | 2907.00 | | NIST Webbook |
| tb | 915.81 | K | Joback Method |
| tc | 1124.27 | K | Joback Method |
| tf | 531.38 | K | Joback Method |
| vc | 1.282 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1180.78 | J/mol×K | 915.81 | Joback Method |
| cpg | 1269.92 | J/mol×K | 1089.53 | Joback Method |
| cpg | 1254.19 | J/mol×K | 1054.79 | Joback Method |
| cpg | 1237.50 | J/mol×K | 1020.04 | Joback Method |
| cpg | 1219.76 | J/mol×K | 985.30 | Joback Method |
| cpg | 1200.88 | J/mol×K | 950.55 | Joback Method |
| cpg | 1284.79 | J/mol×K | 1124.27 | Joback Method |
| dvisc | 0.0010875 | Pa×s | 915.81 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0012317 | Pa×s | 851.74 | Joback Method |
| dvisc | 0.0014234 | Pa×s | 787.67 | Joback Method |
| dvisc | 0.0016877 | Pa×s | 723.60 | Joback Method |
| dvisc | 0.0020685 | Pa×s | 659.52 | Joback Method |
| dvisc | 0.0026485 | Pa×s | 595.45 | Joback Method |
| dvisc | 0.0035995 | Pa×s | 531.38 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U391348&Units=SI |
| **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 |

# 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 |