# Succinic acid, dodec-2-en-1-yl 4-methoxybenzyl ester

**Inchi:** InChI=1S/C24H36O5/c1-3-4-5-6-7-8-9-10-11-12-19-28-23(25)17-18-24(26)29-20-21-13-1

**InchiKey:** XQBQNZJGBSYWBL-VAWYXSNFSA-N

**Formula:** C24H36O5

**SMILES:** CCCCCCCCCC=CCOC(=O)CCC(=O)OCc1ccc(OC)cc1

**Mol. weight [g/mol]:** 404.54

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -238.64 | kJ/mol | Joback Method |
| hf | -818.23 | kJ/mol | Joback Method |
| hfus | 58.53 | kJ/mol | Joback Method |
| hvap | 92.64 | kJ/mol | Joback Method |
| log10ws | -6.75 | | Crippen Method |
| logp | 5.759 | | Crippen Method |
| mcvol | 341.710 | ml/mol | McGowan Method |
| pc | 1054.83 | kPa | Joback Method |
| rinpol | 3075.00 | | NIST Webbook |
| rinpol | 3075.00 | | NIST Webbook |
| tb | 959.34 | K | Joback Method |
| tc | 1174.78 | K | Joback Method |
| tf | 560.65 | K | Joback Method |
| vc | 1.317 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1120.89 | J/mol×K | 959.34 | Joback Method |
| cpg | 1136.89 | J/mol×K | 995.25 | Joback Method |
| cpg | 1151.49 | J/mol×K | 1031.15 | Joback Method |
| cpg | 1164.74 | J/mol×K | 1067.06 | Joback Method |
| cpg | 1176.67 | J/mol×K | 1102.97 | Joback Method |
| cpg | 1187.32 | J/mol×K | 1138.87 | Joback Method |
| cpg | 1196.73 | J/mol×K | 1174.78 | Joback Method |
| dvisc | 0.0002462 | Pa×s | 560.65 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001298 | Pa×s | 627.10 | Joback Method |
| dvisc | 0.0000774 | Pa×s | 693.55 | Joback Method |
| dvisc | 0.0000505 | Pa×s | 759.99 | Joback Method |
| dvisc | 0.0000353 | Pa×s | 826.44 | Joback Method |
| dvisc | 0.0000260 | Pa×s | 892.89 | Joback Method |
| dvisc | 0.0000200 | Pa×s | 959.34 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U389698&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 |