# Succinic acid, di(4-methoxybenzyl) ester

**Inchi:** InChI=1S/C20H22O6/c1-23-17-7-3-15(4-8-17)13-25-19(21)11-12-20(22)26-14-16-5-9-18
**InchiKey:** XAHMNBWQYCJFDK-UHFFFAOYSA-N
**Formula:** C20H22O6
**SMILES:** COc1ccc(COC(=O)CCC(=O)OCc2ccc(OC)cc2)cc1
**Mol. weight [g/mol]:** 358.39

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -354.76 | kJ/mol | Joback Method |
| hf | -760.05 | kJ/mol | Joback Method |
| hfus | 42.81 | kJ/mol | Joback Method |
| hvap | 89.12 | kJ/mol | Joback Method |
| log10ws | -4.52 | | Crippen Method |
| logp | 3.271 | | Crippen Method |
| mcvol | 271.760 | ml/mol | McGowan Method |
| pc | 1668.70 | kPa | Joback Method |
| rinpol | 3000.00 | | NIST Webbook |
| rinpol | 3000.00 | | NIST Webbook |
| tb | 917.74 | K | Joback Method |
| tc | 1141.32 | K | Joback Method |
| tf | 581.82 | K | Joback Method |
| vc | 1.024 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 834.35 | J/mol×K | 917.74 | Joback Method |
| cpg | 882.11 | J/mol×K | 1104.06 | Joback Method |
| cpg | 875.56 | J/mol×K | 1066.79 | Joback Method |
| cpg | 867.50 | J/mol×K | 1029.53 | Joback Method |
| cpg | 857.95 | J/mol×K | 992.27 | Joback Method |
| cpg | 846.90 | J/mol×K | 955.00 | Joback Method |
| cpg | 887.16 | J/mol×K | 1141.32 | Joback Method |
| dvisc | 0.0000321 | Pa×s | 917.74 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000401 | Pa×s | 861.75 | Joback Method |
| dvisc | 0.0000516 | Pa×s | 805.77 | Joback Method |
| dvisc | 0.0000691 | Pa×s | 749.78 | Joback Method |
| dvisc | 0.0000968 | Pa×s | 693.79 | Joback Method |
| dvisc | 0.0001441 | Pa×s | 637.81 | Joback Method |
| dvisc | 0.0002313 | Pa×s | 581.82 | 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=U389699&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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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