# Succinic acid, di(1-(2-fluorophenyl)ethyl) ester

**Inchi:** InChI=1S/C20H20F2O4/c1-13(15-7-3-5-9-17(15)21)25-19(23)11-12-20(24)26-14(2)16-8-
**InchiKey:** FUTQATKJODIEBJ-UHFFFAOYSA-N
**Formula:** C20H20F2O4
**SMILES:** CC(OC(=O)CCC(=O)OC(C)c1ccccc1F)c1ccccc1F
**Mol. weight [g/mol]:** 362.37

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -539.26 | kJ/mol | Joback Method |
| hf | -898.39 | kJ/mol | Joback Method |
| hfus | 39.55 | kJ/mol | Joback Method |
| hvap | 81.89 | kJ/mol | Joback Method |
| log10ws | -5.71 | | Crippen Method |
| logp | 4.654 | | Crippen Method |
| mcvol | 263.560 | ml/mol | McGowan Method |
| pc | 1615.47 | kPa | Joback Method |
| rinpol | 2345.00 | | NIST Webbook |
| rinpol | 2345.00 | | NIST Webbook |
| tb | 870.56 | K | Joback Method |
| tc | 1088.01 | K | Joback Method |
| tf | 508.54 | K | Joback Method |
| vc | 1.012 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 796.09 | J/mol×K | 870.56 | Joback Method |
| cpg | 809.47 | J/mol×K | 906.80 | Joback Method |
| cpg | 821.62 | J/mol×K | 943.04 | Joback Method |
| cpg | 832.55 | J/mol×K | 979.29 | Joback Method |
| cpg | 842.31 | J/mol×K | 1015.53 | Joback Method |
| cpg | 850.93 | J/mol×K | 1051.77 | Joback Method |
| cpg | 858.43 | J/mol×K | 1088.01 | 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=U381397&Units=SI |

# Legend

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|---|---|
| **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 |