# Succinic acid, 2-fluorophenyl 1-phenylpropyl ester

**Inchi:** InChI=1S/C19H19FO4/c1-2-16(14-8-4-3-5-9-14)23-18(21)12-13-19(22)24-17-11-7-6-10-1

**InchiKey:** GWUPWMLFWKWUOH-UHFFFAOYSA-N

**Formula:** C19H19FO4

**SMILES:** CCC(OC(=O)CCC(=O)Oc1ccccc1F)c1ccccc1

**Mol. weight [g/mol]:** 330.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -340.80 | kJ/mol | Joback Method |
| hf | -664.89 | kJ/mol | Joback Method |
| hfus | 37.79 | kJ/mol | Joback Method |
| hvap | 80.21 | kJ/mol | Joback Method |
| log10ws | -5.15 | | Crippen Method |
| logp | 4.206 | | Crippen Method |
| mcvol | 247.700 | ml/mol | McGowan Method |
| pc | 1826.28 | kPa | Joback Method |
| rinpol | 2298.00 | | NIST Webbook |
| rinpol | 2298.00 | | NIST Webbook |
| tb | 843.87 | K | Joback Method |
| tc | 1065.66 | K | Joback Method |
| tf | 499.16 | K | Joback Method |
| vc | 0.944 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 732.42 | J/mol×K | 843.87 | Joback Method |
| cpg | 746.14 | J/mol×K | 880.84 | Joback Method |
| cpg | 758.61 | J/mol×K | 917.80 | Joback Method |
| cpg | 769.89 | J/mol×K | 954.77 | Joback Method |
| cpg | 780.01 | J/mol×K | 991.73 | Joback Method |
| cpg | 788.99 | J/mol×K | 1028.70 | Joback Method |
| cpg | 796.88 | J/mol×K | 1065.66 | 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=U389929&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 |