# Succinic acid, 2-ethylhexyl 4-fluoro-2-methoxyphenyl ester

**Inchi:** InChI=1S/C19H27FO5/c1-4-6-7-14(5-2)13-24-18(21)10-11-19(22)25-16-9-8-15(20)12-17

**InchiKey:** JUVTWEQGTLJSHH-UHFFFAOYSA-N

**Formula:** C19H27FO5

**SMILES:** CCCCC(CC)COC(=O)CCC(=O)Oc1ccc(F)cc1OC

**Mol. weight [g/mol]:** 354.41

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -567.84 | kJ/mol | Joback Method |
| hf | -1045.11 | kJ/mol | Joback Method |
| hfus | 44.55 | kJ/mol | Joback Method |
| hvap | 81.00 | kJ/mol | Joback Method |
| log10ws | -5.04 | | Crippen Method |
| logp | 4.279 | | Crippen Method |
| mcvol | 277.330 | ml/mol | McGowan Method |
| pc | 1368.70 | kPa | Joback Method |
| rinpol | 2354.00 | | NIST Webbook |
| rinpol | 2354.00 | | NIST Webbook |
| tb | 844.59 | K | Joback Method |
| tc | 1043.57 | K | Joback Method |
| tf | 507.49 | K | Joback Method |
| vc | 1.069 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 855.32 | J/mol×K | 844.59 | Joback Method |
| cpg | 870.40 | J/mol×K | 877.75 | Joback Method |
| cpg | 884.33 | J/mol×K | 910.92 | Joback Method |
| cpg | 897.12 | J/mol×K | 944.08 | Joback Method |
| cpg | 908.76 | J/mol×K | 977.25 | Joback Method |
| cpg | 919.27 | J/mol×K | 1010.41 | Joback Method |
| cpg | 928.65 | J/mol×K | 1043.57 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U390904&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# 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 |