# Succinic acid, di(3-fluorophenyl) ester

**Inchi:** InChI=1S/C16H12F2O4/c17-11-3-1-5-13(9-11)21-15(19)7-8-16(20)22-14-6-2-4-12(18)10
**InchiKey:** YEJDQOHATKVRNS-UHFFFAOYSA-N
**Formula:** C16H12F2O4
**SMILES:** O=C(CCC(=O)Oc1cccc(F)c1)Oc1cccc(F)c1
**Mol. weight [g/mol]:** 306.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -568.06 | kJ/mol | Joback Method |
| hf | -805.27 | kJ/mol | Joback Method |
| hfus | 36.23 | kJ/mol | Joback Method |
| hvap | 73.76 | kJ/mol | Joback Method |
| log10ws | -4.41 | | Crippen Method |
| logp | 3.256 | | Crippen Method |
| mcvol | 207.200 | ml/mol | McGowan Method |
| pc | 2224.99 | kPa | Joback Method |
| rinpol | 2139.00 | | NIST Webbook |
| rinpol | 2139.00 | | NIST Webbook |
| tb | 779.92 | K | Joback Method |
| tc | 999.04 | K | Joback Method |
| tf | 493.46 | K | Joback Method |
| vc | 0.799 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 572.54 | J/mol×K | 779.92 | Joback Method |
| cpg | 584.77 | J/mol×K | 816.44 | Joback Method |
| cpg | 595.96 | J/mol×K | 852.96 | Joback Method |
| cpg | 606.13 | J/mol×K | 889.48 | Joback Method |
| cpg | 615.29 | J/mol×K | 926.00 | Joback Method |
| cpg | 623.46 | J/mol×K | 962.52 | Joback Method |
| cpg | 630.66 | J/mol×K | 999.04 | Joback Method |

# Sources

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|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U390343&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 |