# Succinic acid, 2-fluorophenyl neryl ester

**Inchi:** InChI=1S/C20H25FO4/c1-15(2)7-6-8-16(3)13-14-24-19(22)11-12-20(23)25-18-10-5-4-9-1
**InchiKey:** KUJOBMVTXPEIAA-SSZFMOIBSA-N
**Formula:** C20H25FO4
**SMILES:** CC(C)=CCCC(C)=CCOC(=O)CCC(=O)Oc1ccccc1F
**Mol. weight [g/mol]:** 348.41

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -299.01 | kJ/mol | Joback Method |
| hf | -701.92 | kJ/mol | Joback Method |
| hfus | 47.65 | kJ/mol | Joback Method |
| hvap | 80.62 | kJ/mol | Joback Method |
| log10ws | -5.71 | | Crippen Method |
| logp | 4.747 | | Crippen Method |
| mcvol | 276.950 | ml/mol | McGowan Method |
| pc | 1412.25 | kPa | Joback Method |
| rinpol | 2420.00 | | NIST Webbook |
| rinpol | 2420.00 | | NIST Webbook |
| tb | 848.59 | K | Joback Method |
| tc | 1055.83 | K | Joback Method |
| tf | 460.93 | K | Joback Method |
| vc | 1.075 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 831.27 | J/mol×K | 848.59 | Joback Method |
| cpg | 846.28 | J/mol×K | 883.13 | Joback Method |
| cpg | 860.30 | J/mol×K | 917.67 | Joback Method |
| cpg | 873.37 | J/mol×K | 952.21 | Joback Method |
| cpg | 885.54 | J/mol×K | 986.75 | Joback Method |
| cpg | 896.87 | J/mol×K | 1021.29 | Joback Method |
| cpg | 907.40 | J/mol×K | 1055.83 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U391240&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 |

# 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 |