

Succinic acid, 3-fluorobenzyl nonyl ester

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| Inchi: | InChI=1S/C20H29FO4/c1-2-3-4-5-6-7-8-14-24-19(22)12-13-20(23)25-16-17-10-9-11-18(2) |
| InchiKey: | SPXHOYHYPPWZCQ-UHFFFAOYSA-N |
| Formula: | C20H29FO4 |
| SMILES: | CCCCCCCCCOC(=O)CCC(=O)OCc1cccc(F)c1 |
| Mol. weight [g/mol]: | 352.44 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -442.35 | kJ/mol | Joback Method |
| hf | -916.78 | kJ/mol | Joback Method |
| hfus | 49.86 | kJ/mol | Joback Method |
| hvap | 80.55 | kJ/mol | Joback Method |
| log10ws | -5.85 | | Crippen Method |
| logp | 4.943 | | Crippen Method |
| mvol | 285.550 | ml/mol | McGowan Method |
| pc | 1298.60 | kPa | Joback Method |
| rinpol | 2435.00 | | NIST Webbook |
| rinpol | 2435.00 | | NIST Webbook |
| tb | 840.51 | K | Joback Method |
| tc | 1036.82 | K | Joback Method |
| tf | 499.01 | K | Joback Method |
| vc | 1.113 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 885.09 | J/mol×K | 840.51 | Joback Method |
| cpg | 900.82 | J/mol×K | 873.23 | Joback Method |
| cpg | 915.47 | J/mol×K | 905.95 | Joback Method |
| cpg | 929.04 | J/mol×K | 938.67 | Joback Method |
| cpg | 941.57 | J/mol×K | 971.38 | Joback Method |
| cpg | 953.08 | J/mol×K | 1004.10 | Joback Method |
| cpg | 963.58 | J/mol×K | 1036.82 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U381242&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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

| | |
|-----------------|---|
| 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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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