

Succinic acid, 3-fluorobenzyl pentadecyl ester

Inchi: InChI=1S/C26H41FO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-20-30-25(28)18-19-26(29)31-2
InchiKey: WXPCZILEMQKPHL-UHFFFAOYSA-N
Formula: C26H41FO4
SMILES: CCCCCCCCCCCCCCOC(=O)CCC(=O)OCc1cccc(F)c1
Mol. weight [g/mol]: 436.60

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -391.83 | kJ/mol | Joback Method |
| hf | -1040.62 | kJ/mol | Joback Method |
| hfus | 65.40 | kJ/mol | Joback Method |
| hvap | 93.90 | kJ/mol | Joback Method |
| log10ws | -8.36 | | Crippen Method |
| logp | 7.283 | | Crippen Method |
| mvol | 370.090 | ml/mol | McGowan Method |
| pc | 890.54 | kPa | Joback Method |
| rinpol | 3035.00 | | NIST Webbook |
| rinpol | 3035.00 | | NIST Webbook |
| tb | 977.79 | K | Joback Method |
| tc | 1198.89 | K | Joback Method |
| tf | 566.63 | K | Joback Method |
| vc | 1.450 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1250.48 | J/molxK | 977.79 | Joback Method |
| cpg | 1268.01 | J/molxK | 1014.64 | Joback Method |
| cpg | 1283.99 | J/molxK | 1051.49 | Joback Method |
| cpg | 1298.47 | J/molxK | 1088.34 | Joback Method |
| cpg | 1311.49 | J/molxK | 1125.19 | Joback Method |
| cpg | 1323.11 | J/molxK | 1162.04 | Joback Method |
| cpg | 1333.39 | J/molxK | 1198.89 | Joback Method |

Sources

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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=U381248&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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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