

Succinic acid, 1-(pentafluorophenyl)ethyl tetradecyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C26H37F5O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-34-19(32)15-16-20(33)35-1 |
| InchiKey: | HMSDMOFAHXXTEM-UHFFFAOYSA-N |
| Formula: | C26H37F5O4 |
| SMILES: | CCCCCCCCCCCCCOC(=O)CCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F |
| Mol. weight [g/mol]: | 508.56 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1212.03 | kJ/mol | Joback Method |
| hf | -1876.22 | kJ/mol | Joback Method |
| hfus | 72.64 | kJ/mol | Joback Method |
| hvap | 92.89 | kJ/mol | Joback Method |
| log10ws | -9.65 | | Crippen Method |
| logp | 8.011 | | Crippen Method |
| mcvol | 377.170 | ml/mol | McGowan Method |
| pc | 778.94 | kPa | Joback Method |
| rinsol | 2788.00 | | NIST Webbook |
| tb | 994.35 | K | Joback Method |
| tc | 1231.40 | K | Joback Method |
| tf | 604.07 | K | Joback Method |
| vc | 1.516 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1275.32 | J/molxK | 994.35 | Joback Method |
| cpg | 1292.50 | J/molxK | 1033.86 | Joback Method |
| cpg | 1307.80 | J/molxK | 1073.37 | Joback Method |
| cpg | 1321.24 | J/molxK | 1112.88 | Joback Method |
| cpg | 1332.86 | J/molxK | 1152.38 | Joback Method |
| cpg | 1342.71 | J/molxK | 1191.89 | Joback Method |
| cpg | 1350.81 | J/molxK | 1231.40 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U380833&Units=SI |

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

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