

Succinic acid, 2-fluoro-6-(trifluoromethyl)benzyl tridecyl

Inchi:
ester

InChI=1S/C25H36F4O4/c1-2-3-4-5-6-7-8-9-10-11-12-18-32-23(30)16-17-24(31)33-19-20

InchiKey:

MEHPUNDGUVASEY-UHFFFAOYSA-N

Formula:

C25H36F4O4

SMILES:

CCCCCCCCCCCCCOC(=O)CCC(=O)OCc1c(F)cccc1C(F)(F)F

Mol. weight [g/mol]:

476.54

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -991.47 | kJ/mol | Joback Method |
| hf | -1628.53 | kJ/mol | Joback Method |
| hfus | 64.25 | kJ/mol | Joback Method |
| hvap | 88.59 | kJ/mol | Joback Method |
| log10ws | -8.63 | | Crippen Method |
| logp | 7.522 | | Crippen Method |
| mvol | 361.310 | ml/mol | McGowan Method |
| pc | 872.22 | kPa | Joback Method |
| rinpol | 2810.00 | | NIST Webbook |
| rinpol | 2810.00 | | NIST Webbook |
| tb | 954.47 | K | Joback Method |
| tc | 1171.23 | K | Joback Method |
| tf | 572.07 | K | Joback Method |
| vc | 1.437 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1208.38 | J/molxK | 954.47 | Joback Method |
| cpg | 1225.15 | J/molxK | 990.60 | Joback Method |
| cpg | 1240.53 | J/molxK | 1026.72 | Joback Method |
| cpg | 1254.59 | J/molxK | 1062.85 | Joback Method |
| cpg | 1267.39 | J/molxK | 1098.97 | Joback Method |
| cpg | 1278.99 | J/molxK | 1135.10 | Joback Method |
| cpg | 1289.47 | J/molxK | 1171.23 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U381643&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| h vap: | 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 |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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