

Succinic acid, octadecyl 2,4,5-trifluorobenzyl ester

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| Inchi: | InChI=1S/C29H45F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-35-28(33)18-19 |
| InchiKey: | VVZWGTZRXPiWOW-UHFFFAOYSA-N |
| Formula: | C29H45F3O4 |
| SMILES: | CCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCc1cc(F)c(F)cc1F |
| Mol. weight [g/mol]: | 514.66 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -775.45 | kJ/mol | Joback Method |
| hf | -1517.70 | kJ/mol | Joback Method |
| hfus | 78.55 | kJ/mol | Joback Method |
| hvap | 100.27 | kJ/mol | Joback Method |
| log10ws | -10.28 | | Crippen Method |
| logp | 8.732 | | Crippen Method |
| mvol | 415.900 | ml/mol | McGowan Method |
| pc | 707.71 | kPa | Joback Method |
| rinpol | 3268.00 | | NIST Webbook |
| rinpol | 3268.00 | | NIST Webbook |
| tb | 1054.93 | K | Joback Method |
| tc | 1317.17 | K | Joback Method |
| tf | 626.66 | K | Joback Method |
| vc | 1.653 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1451.16 | J/mol×K | 1054.93 | Joback Method |
| cpg | 1470.02 | J/mol×K | 1098.64 | Joback Method |
| cpg | 1486.59 | J/mol×K | 1142.34 | Joback Method |
| cpg | 1500.94 | J/mol×K | 1186.05 | Joback Method |
| cpg | 1513.18 | J/mol×K | 1229.76 | Joback Method |
| cpg | 1523.38 | J/mol×K | 1273.47 | Joback Method |
| cpg | 1531.64 | J/mol×K | 1317.17 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U382233&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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