

Succinic acid, dodecyl 2-fluoro-6-(trifluoromethyl)benzyl ester

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| Inchi: | InChI=1S/C24H34F4O4/c1-2-3-4-5-6-7-8-9-10-11-17-31-22(29)15-16-23(30)32-18-19-20 |
| InchiKey: | DYEXYSWMYODUGW-UHFFFAOYSA-N |
| Formula: | C24H34F4O4 |
| SMILES: | CCCCCCCCCCCCOC(=O)CCC(=O)OCc1c(F)cccc1C(F)(F)F |
| Mol. weight [g/mol]: | 462.52 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -999.89 | kJ/mol | Joback Method |
| hf | -1607.89 | kJ/mol | Joback Method |
| hfus | 61.66 | kJ/mol | Joback Method |
| hvap | 86.37 | kJ/mol | Joback Method |
| log10ws | -8.21 | | Crippen Method |
| logp | 7.132 | | Crippen Method |
| mvol | 347.220 | ml/mol | McGowan Method |
| pc | 923.86 | kPa | Joback Method |
| rinpol | 2708.00 | | NIST Webbook |
| rinpol | 2708.00 | | NIST Webbook |
| tb | 931.59 | K | Joback Method |
| tc | 1141.36 | K | Joback Method |
| tf | 560.80 | K | Joback Method |
| vc | 1.381 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1147.01 | J/molxK | 931.59 | Joback Method |
| cpg | 1163.31 | J/molxK | 966.55 | Joback Method |
| cpg | 1178.32 | J/molxK | 1001.51 | Joback Method |
| cpg | 1192.09 | J/molxK | 1036.47 | Joback Method |
| cpg | 1204.68 | J/molxK | 1071.44 | Joback Method |
| cpg | 1216.14 | J/molxK | 1106.40 | Joback Method |
| cpg | 1226.54 | J/molxK | 1141.36 | 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=U381642&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 |
| 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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