

Succinic acid, tridec-2-yn-1-yl 2-fluoro-3-(trifluoromethyl)phenyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C24H30F4O4/c1-2-3-4-5-6-7-8-9-10-11-12-18-31-21(29)16-17-22(30)32-20-15 |
| InchiKey: | GXFYXGQDTMHULL-UHFFFAOYSA-N |
| Formula: | C24H30F4O4 |
| SMILES: | CCCCCCCCC#CCOC(=O)CCC(=O)Oc1cccc(C(F)(F)F)c1F |
| Mol. weight [g/mol]: | 458.49 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -797.09 | kJ/mol | Joback Method |
| hf | -1335.59 | kJ/mol | Joback Method |
| hfus | 64.78 | kJ/mol | Joback Method |
| hvap | 88.52 | kJ/mol | Joback Method |
| log10ws | -8.16 | | Crippen Method |
| logp | 6.608 | | Crippen Method |
| mvol | 338.620 | ml/mol | McGowan Method |
| pc | 1020.73 | kPa | Joback Method |
| rinpol | 2766.00 | | NIST Webbook |
| rinpol | 2766.00 | | NIST Webbook |
| tb | 940.59 | K | Joback Method |
| tc | 1151.67 | K | Joback Method |
| tf | 666.90 | K | Joback Method |
| vc | 1.343 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1092.02 | J/molxK | 940.59 | Joback Method |
| cpg | 1106.98 | J/molxK | 975.77 | Joback Method |
| cpg | 1120.72 | J/molxK | 1010.95 | Joback Method |
| cpg | 1133.30 | J/molxK | 1046.13 | Joback Method |
| cpg | 1144.76 | J/molxK | 1081.31 | Joback Method |
| cpg | 1155.16 | J/molxK | 1116.49 | Joback Method |
| cpg | 1164.55 | J/molxK | 1151.67 | 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=U390794&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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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