

Succinic acid, tridec-2-yn-1-yl pentafluorophenyl ester

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| Inchi: | InChI=1S/C23H27F5O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-31-16(29)13-14-17(30)32-23-21 |
| InchiKey: | RLINMEXPRBOCQ-UHFFFAOYSA-N |
| Formula: | C23H27F5O4 |
| SMILES: | CCCCCCCCC#CCOC(=O)CCC(=O)Oc1c(F)c(F)c(F)c(F)c1F |
| Mol. weight [g/mol]: | 462.45 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1032.05 | kJ/mol | Joback Method |
| hf | -1536.72 | kJ/mol | Joback Method |
| hfus | 71.52 | kJ/mol | Joback Method |
| hvap | 88.76 | kJ/mol | Joback Method |
| log10ws | -8.38 | | Crippen Method |
| logp | 6.145 | | Crippen Method |
| mcvol | 326.300 | ml/mol | McGowan Method |
| pc | 1012.30 | kPa | Joback Method |
| rinpol | 2535.00 | | NIST Webbook |
| rinpol | 2535.00 | | NIST Webbook |
| tb | 935.15 | K | Joback Method |
| tc | 1145.13 | K | Joback Method |
| tf | 691.36 | K | Joback Method |
| vc | 1.315 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1035.90 | J/mol×K | 935.15 | Joback Method |
| cpg | 1050.25 | J/mol×K | 970.15 | Joback Method |
| cpg | 1063.30 | J/mol×K | 1005.14 | Joback Method |
| cpg | 1075.07 | J/mol×K | 1040.14 | Joback Method |
| cpg | 1085.56 | J/mol×K | 1075.14 | Joback Method |
| cpg | 1094.78 | J/mol×K | 1110.14 | Joback Method |
| cpg | 1102.76 | J/mol×K | 1145.13 | 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=U390358&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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