

Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl pent-4-en-2-yl ester

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|-----------------------------|-----------------------------------------------------------------------------------|
| Inchi: | InChI=1S/C14H16F8O4/c1-3-4-8(2)26-10(24)6-5-9(23)25-7-12(17,18)14(21,22)13(19,20) |
| InchiKey: | JSGWQBREWPDYLP-UHFFFAOYSA-N |
| Formula: | C14H16F8O4 |
| SMILES: | <chem>C=CCC(C)OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F</chem> |
| Mol. weight [g/mol]: | 400.26 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1867.84 | kJ/mol | Joback Method |
| hf | -2302.15 | kJ/mol | Joback Method |
| hfus | 31.66 | kJ/mol | Joback Method |
| hvap | 53.20 | kJ/mol | Joback Method |
| log10ws | -4.63 | | Crippen Method |
| logp | 3.989 | | Crippen Method |
| mvol | 232.860 | ml/mol | McGowan Method |
| pc | 1356.63 | kPa | Joback Method |
| rinpol | 1468.00 | | NIST Webbook |
| rinpol | 1468.00 | | NIST Webbook |
| tb | 652.57 | K | Joback Method |
| tc | 812.62 | K | Joback Method |
| tf | 372.08 | K | Joback Method |
| vc | 0.948 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 671.84 | J/mol×K | 652.57 | Joback Method |
| cpg | 684.73 | J/mol×K | 679.24 | Joback Method |
| cpg | 696.85 | J/mol×K | 705.92 | Joback Method |
| cpg | 708.25 | J/mol×K | 732.59 | Joback Method |
| cpg | 718.96 | J/mol×K | 759.27 | Joback Method |
| cpg | 729.02 | J/mol×K | 785.94 | Joback Method |
| cpg | 738.45 | J/mol×K | 812.62 | Joback Method |

Sources

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U391151&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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