

Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl but-3-en-1-yl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C13H14F8O4/c1-2-3-6-24-8(22)4-5-9(23)25-7-11(16,17)13(20,21)12(18,19)10 |
| InchiKey: | DLORXODKWFNZPS-UHFFFAOYSA-N |
| Formula: | C13H14F8O4 |
| SMILES: | C=CCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)F |
| Mol. weight [g/mol]: | 386.24 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1873.82 | kJ/mol | Joback Method |
| hf | -2276.23 | kJ/mol | Joback Method |
| hfus | 32.59 | kJ/mol | Joback Method |
| hvap | 51.36 | kJ/mol | Joback Method |
| log10ws | -4.10 | | Crippen Method |
| logp | 3.600 | | Crippen Method |
| mvol | 218.770 | ml/mol | McGowan Method |
| pc | 1449.04 | kPa | Joback Method |
| rinpol | 1449.00 | | NIST Webbook |
| rinpol | 1449.00 | | NIST Webbook |
| tb | 630.13 | K | Joback Method |
| tc | 787.47 | K | Joback Method |
| tf | 375.81 | K | Joback Method |
| vc | 0.897 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 619.41 | J/mol×K | 630.13 | Joback Method |
| cpg | 631.66 | J/mol×K | 656.35 | Joback Method |
| cpg | 643.20 | J/mol×K | 682.58 | Joback Method |
| cpg | 654.06 | J/mol×K | 708.80 | Joback Method |
| cpg | 664.26 | J/mol×K | 735.03 | Joback Method |
| cpg | 673.85 | J/mol×K | 761.25 | Joback Method |
| cpg | 682.85 | J/mol×K | 787.47 | 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=U391185&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 |
| 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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<https://www.chemeo.com/cid/119-086-5/Succinic-acid-2-2-3-3-4-4-5-5-octafluoropentyl-but-3-en-1-yl-ester.pdf>

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