

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

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|----------------------|--|
| Inchi: | InChI=1S/C23H34F8O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-34-18(32)14-15-19(33)35-17 |
| InchiKey: | AHOUCQSRVUZQRV-VAWYXSNFSA-N |
| Formula: | C23H34F8O4 |
| SMILES: | CCCCCCCCC=CCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F |
| Mol. weight [g/mol]: | 526.50 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1797.24 | kJ/mol | Joback Method |
| hf | -2490.84 | kJ/mol | Joback Method |
| hfus | 59.98 | kJ/mol | Joback Method |
| hvap | 74.25 | kJ/mol | Joback Method |
| log10ws | -8.28 | | Crippen Method |
| logp | 7.501 | | Crippen Method |
| mvol | 359.670 | ml/mol | McGowan Method |
| pc | 781.56 | kPa | Joback Method |
| rinpol | 2416.00 | | NIST Webbook |
| rinpol | 2416.00 | | NIST Webbook |
| tb | 866.41 | K | Joback Method |
| tc | 1064.95 | K | Joback Method |
| tf | 485.19 | K | Joback Method |
| vc | 1.456 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1187.02 | J/mol×K | 866.41 | Joback Method |
| cpg | 1204.68 | J/mol×K | 899.50 | Joback Method |
| cpg | 1221.22 | J/mol×K | 932.59 | Joback Method |
| cpg | 1236.75 | J/mol×K | 965.68 | Joback Method |
| cpg | 1251.36 | J/mol×K | 998.77 | Joback Method |
| cpg | 1265.14 | J/mol×K | 1031.86 | Joback Method |
| cpg | 1278.19 | J/mol×K | 1064.95 | 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=U391052&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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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