

Succinic acid, 2,2,3,3-tetrafluoropropyl dec-4-en-1-yl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C17H26F4O4/c1-2-3-4-5-6-7-8-9-12-24-14(22)10-11-15(23)25-13-17(20,21)16 |
| InchiKey: | NWFACMPTTPKZMG-VOTSOKGWSA-N |
| Formula: | C17H26F4O4 |
| SMILES: | CCCCC=CCCCOC(=O)CCC(=O)OCC(F)(F)C(F)F |
| Mol. weight [g/mol]: | 370.38 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -1074.20 | kJ/mol | Joback Method |
| hf | -1565.06 | kJ/mol | Joback Method |
| hfus | 46.94 | kJ/mol | Joback Method |
| hvap | 66.75 | kJ/mol | Joback Method |
| log10ws | -5.15 | | Crippen Method |
| logp | 4.670 | | Crippen Method |
| mcvol | 268.050 | ml/mol | McGowan Method |
| pc | 1223.41 | kPa | Joback Method |
| rinpol | 1931.00 | | NIST Webbook |
| rinpol | 1931.00 | | NIST Webbook |
| tb | 738.51 | K | Joback Method |
| tc | 910.67 | K | Joback Method |
| tf | 410.37 | K | Joback Method |
| vc | 1.071 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 800.44 | J/molxK | 738.51 | Joback Method |
| cpg | 815.62 | J/molxK | 767.20 | Joback Method |
| cpg | 829.97 | J/molxK | 795.90 | Joback Method |
| cpg | 843.54 | J/molxK | 824.59 | Joback Method |
| cpg | 856.36 | J/molxK | 853.28 | Joback Method |
| cpg | 868.44 | J/molxK | 881.98 | Joback Method |
| cpg | 879.83 | J/molxK | 910.67 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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=U391167&Units=SI |

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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