

Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl (2-chlorocyclohexyl)methyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C16H19ClF8O4/c17-10-4-2-1-3-9(10)7-28-11(26)5-6-12(27)29-8-14(20,21)16(2) |
| InchiKey: | GUSNVUYJRFYCQD-UHFFFAOYSA-N |
| Formula: | C16H19ClF8O4 |
| SMILES: | O=C(CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F)OCC1CCCCC1Cl |
| Mol. weight [g/mol]: | 462.76 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1931.59 | kJ/mol | Joback Method |
| hf | -2445.34 | kJ/mol | Joback Method |
| hfus | 38.75 | kJ/mol | Joback Method |
| hvap | 63.22 | kJ/mol | Joback Method |
| log10ws | -5.42 | | Crippen Method |
| logp | 4.822 | | Crippen Method |
| mcvol | 266.720 | ml/mol | McGowan Method |
| pc | 1255.70 | kPa | Joback Method |
| rinpol | 2051.00 | | NIST Webbook |
| rinpol | 2051.00 | | NIST Webbook |
| tb | 754.40 | K | Joback Method |
| tc | 934.38 | K | Joback Method |
| tf | 444.44 | K | Joback Method |
| vc | 1.065 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 829.94 | J/mol×K | 754.40 | Joback Method |
| cpg | 844.44 | J/mol×K | 784.40 | Joback Method |
| cpg | 857.92 | J/mol×K | 814.39 | Joback Method |
| cpg | 870.41 | J/mol×K | 844.39 | Joback Method |
| cpg | 881.97 | J/mol×K | 874.39 | Joback Method |
| cpg | 892.64 | J/mol×K | 904.39 | Joback Method |
| cpg | 902.48 | J/mol×K | 934.38 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U391398&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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<https://www.chemeo.com/cid/82-250-3/Succinic-acid-2-2-3-3-4-4-5-5-octafluoropentyl-2-chlorocyclohexyl-methyl-ester>

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