# Succinic acid, cyclohexylmethyl 2,2,3,4,4,4-hexafluorobutyl ester

**Inchi:** InChI=1S/C15H20F6O4/c16-13(15(19,20)21)14(17,18)9-25-12(23)7-6-11(22)24-8-10-4-2

**InchiKey:** OTUYIPXBCIRSHF-UHFFFAOYSA-N

**Formula:** C15H20F6O4

**SMILES:** O=C(CCC(=O)OCC(F)(F)C(F)C(F)(F)F)OCC1CCCCC1

**Mol. weight [g/mol]:** 378.31

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -1533.59 | kJ/mol | Joback Method |
| hf | -1987.65 | kJ/mol | Joback Method |
| hfus | 32.14 | kJ/mol | Joback Method |
| hvap | 59.84 | kJ/mol | Joback Method |
| log10ws | -4.42 | | Crippen Method |
| logp | 3.969 | | Crippen Method |
| mcvol | 236.850 | ml/mol | McGowan Method |
| pc | 1496.51 | kPa | Joback Method |
| rinpol | 1726.00 | | NIST Webbook |
| tb | 703.45 | K | Joback Method |
| tc | 881.99 | K | Joback Method |
| tf | 403.89 | K | Joback Method |
| vc | 0.936 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 723.57 | J/mol×K | 703.45 | Joback Method |
| cpg | 739.21 | J/mol×K | 733.21 | Joback Method |
| cpg | 753.85 | J/mol×K | 762.96 | Joback Method |
| cpg | 767.53 | J/mol×K | 792.72 | Joback Method |
| cpg | 780.29 | J/mol×K | 822.48 | Joback Method |
| cpg | 792.16 | J/mol×K | 852.24 | Joback Method |
| cpg | 803.19 | J/mol×K | 881.99 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U390806&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |