

# Succinic acid, cyclohexylmethyl 2,2,3,3-tetrafluoropropyl ester

**Inchi:** InChI=1S/C14H20F4O4/c15-13(16)14(17,18)9-22-12(20)7-6-11(19)21-8-10-4-2-1-3-5-10  
**InchiKey:** RPPXGNIYOTWHAZ-UHFFFAOYSA-N  
**Formula:** C14H20F4O4  
**SMILES:** O=C(CCC(=O)OCC(F)(F)C(F)F)OCC1CCCCC1  
**Mol. weight [g/mol]:** 328.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1155.23	kJ/mol	Joback Method
hf	-1566.04	kJ/mol	Joback Method
hfus	30.81	kJ/mol	Joback Method
hvap	60.55	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.334		Crippen Method
mvol	219.220	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	1735.00		NIST Webbook
rinpol	1735.00		NIST Webbook
tb	685.26	K	Joback Method
tc	868.83	K	Joback Method
tf	389.02	K	Joback Method
vc	0.856	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	650.28	J/molxK	685.26	Joback Method
cpg	666.33	J/molxK	715.85	Joback Method
cpg	681.41	J/molxK	746.45	Joback Method
cpg	695.54	J/molxK	777.04	Joback Method
cpg	708.75	J/molxK	807.64	Joback Method
cpg	721.05	J/molxK	838.23	Joback Method
cpg	732.48	J/molxK	868.83	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390853&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390853&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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