

# Succinic acid, 1,1,1-trifluoroprop-2-yl cis-4-methylcyclohexyl ester

**Inchi:** InChI=1S/C14H21F3O4/c1-9-3-5-11(6-4-9)21-13(19)8-7-12(18)20-10(2)14(15,16)17/h9-11,13-14,16-17,21  
**InchiKey:** KNYVTMOOHSPWOG-UHFFFAOYSA-N  
**Formula:** C14H21F3O4  
**SMILES:** CC1CCC(OC(=O)CCC(=O)OC(C)C(F)(F)F)CC1  
**Mol. weight [g/mol]:** 310.31

## Physical Properties

Property code	Value	Unit	Source
gf	-968.13	kJ/mol	Joback Method
hf	-1390.27	kJ/mol	Joback Method
hfus	28.80	kJ/mol	Joback Method
hvap	61.06	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.383		Crippen Method
mvol	217.450	ml/mol	McGowan Method
pc	1727.46	kPa	Joback Method
rinpol	1584.00		NIST Webbook
rinpol	1584.00		NIST Webbook
tb	681.32	K	Joback Method
tc	871.06	K	Joback Method
tf	384.19	K	Joback Method
vc	0.837	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.56	J/mol×K	681.32	Joback Method
cpg	661.67	J/mol×K	712.94	Joback Method
cpg	677.73	J/mol×K	744.57	Joback Method
cpg	692.76	J/mol×K	776.19	Joback Method
cpg	706.80	J/mol×K	807.81	Joback Method
cpg	719.85	J/mol×K	839.44	Joback Method
cpg	731.93	J/mol×K	871.06	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<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=U390052&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390052&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>

# 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>hvp:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</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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