

# Succinic acid, 2,2-dichloroethyl 2-fluoro-3-(trifluoromethyl)phenyl ester

Inchi:	InChI=1S/C13H10Cl2F4O4/c14-9(15)6-22-10(20)4-5-11(21)23-8-3-1-2-7(12(8)16)13(17,
InchiKey:	LZBXMPWNKXXAIC-UHFFFAOYSA-N
Formula:	C13H10Cl2F4O4
SMILES:	O=C(CCC(=O)Oc1cccc(C(F)(F)F)c1F)OCC(Cl)Cl
Mol. weight [g/mol]:	377.12

## Physical Properties

Property code	Value	Unit	Source
gf	-1118.81	kJ/mol	Joback Method
hf	-1417.61	kJ/mol	Joback Method
hfus	38.04	kJ/mol	Joback Method
hvap	70.26	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	3.877		Crippen Method
mvol	216.710	ml/mol	McGowan Method
pc	1890.36	kPa	Joback Method
rinpol	1978.00		NIST Webbook
rinpol	1978.00		NIST Webbook
tb	754.33	K	Joback Method
tc	953.47	K	Joback Method
tf	481.67	K	Joback Method
vc	0.857	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.78	J/molxK	754.33	Joback Method
cpg	579.94	J/molxK	787.52	Joback Method
cpg	589.32	J/molxK	820.71	Joback Method
cpg	597.93	J/molxK	853.90	Joback Method
cpg	605.79	J/molxK	887.09	Joback Method
cpg	612.93	J/molxK	920.28	Joback Method
cpg	619.37	J/molxK	953.47	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=U390782&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390782&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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