

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

<b>Inchi:</b>	InChI=1S/C13H12F4O4/c1-2-20-10(18)6-7-11(19)21-9-5-3-4-8(12(9)14)13(15,16)17/h3-5
<b>InchiKey:</b>	JBDUFFDZHWXXID-UHFFFAOYSA-N
<b>Formula:</b>	C13H12F4O4
<b>SMILES:</b>	CCOC(=O)CCC(=O)Oc1cccc(C(F)(F)F)c1F
<b>Mol. weight [g/mol]:</b>	308.23

## Physical Properties

Property code	Value	Unit	Source
gf	-1092.51	kJ/mol	Joback Method
hf	-1380.85	kJ/mol	Joback Method
hfus	33.17	kJ/mol	Joback Method
hvap	61.88	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.093		Crippen Method
mcvol	192.230	ml/mol	McGowan Method
pc	2003.70	kPa	Joback Method
rinpol	1626.00		NIST Webbook
rinpol	1626.00		NIST Webbook
tb	679.91	K	Joback Method
tc	868.19	K	Joback Method
tf	436.83	K	Joback Method
vc	0.764	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.50	J/mol×K	679.91	Joback Method
cpg	533.39	J/mol×K	711.29	Joback Method
cpg	544.55	J/mol×K	742.67	Joback Method
cpg	554.98	J/mol×K	774.05	Joback Method
cpg	564.71	J/mol×K	805.43	Joback Method
cpg	573.74	J/mol×K	836.81	Joback Method
cpg	582.10	J/mol×K	868.19	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=U390797&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390797&amp;Units=SI</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>hvap:</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>rinpola:</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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