

# Succinic acid, ethyl 2-fluoro-5-nitrobenzyl ester

Inchi:	InChI=1S/C13H14FNO6/c1-2-20-12(16)5-6-13(17)21-8-9-7-10(15(18)19)3-4-11(9)14/h3-
InchiKey:	VNUDLHCCOSVCDW-UHFFFAOYSA-N
Formula:	C13H14FNO6
SMILES:	CCOC(=O)CCC(=O)OCc1cc([N+](=O)[O-])ccc1F
Mol. weight [g/mol]:	299.25

## Physical Properties

Property code	Value	Unit	Source
gf	-475.37	kJ/mol	Joback Method
hf	-794.53	kJ/mol	Joback Method
hfus	42.70	kJ/mol	Joback Method
hvap	82.22	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	2.120		Crippen Method
mcvol	204.340	ml/mol	McGowan Method
pc	2254.67	kPa	Joback Method
rinpol	2124.00		NIST Webbook
rinpol	2124.00		NIST Webbook
tb	837.17	K	Joback Method
tc	1058.48	K	Joback Method
tf	576.25	K	Joback Method
vc	0.803	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	593.28	J/molxK	837.17	Joback Method
cpg	604.16	J/molxK	874.05	Joback Method
cpg	614.04	J/molxK	910.94	Joback Method
cpg	622.91	J/molxK	947.82	Joback Method
cpg	630.77	J/molxK	984.71	Joback Method
cpg	637.65	J/molxK	1021.59	Joback Method
cpg	643.53	J/molxK	1058.48	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=U380923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380923&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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