

# Succinic acid, butyl 4-fluoro-3-nitrobenzyl ester

Inchi:	InChI=1S/C15H18FNO6/c1-2-3-8-22-14(18)6-7-15(19)23-10-11-4-5-12(16)13(9-11)17(20)
InchiKey:	KWECPRPYJKFPFS-UHFFFAOYSA-N
Formula:	C15H18FNO6
SMILES:	CCCCOC(=O)CCC(=O)OCc1ccc(F)c([N+](=O)[O-])c1
Mol. weight [g/mol]:	327.30

## Physical Properties

Property code	Value	Unit	Source
gf	-458.53	kJ/mol	Joback Method
hf	-835.81	kJ/mol	Joback Method
hfus	47.88	kJ/mol	Joback Method
hvap	86.67	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	2.901		Crippen Method
mvol	232.520	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	2352.00		NIST Webbook
rinpol	2352.00		NIST Webbook
tb	882.93	K	Joback Method
tc	1101.39	K	Joback Method
tf	598.79	K	Joback Method
vc	0.915	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.14	J/molxK	882.93	Joback Method
cpg	715.54	J/molxK	919.34	Joback Method
cpg	725.85	J/molxK	955.75	Joback Method
cpg	735.08	J/molxK	992.16	Joback Method
cpg	743.24	J/molxK	1028.57	Joback Method
cpg	750.34	J/molxK	1064.98	Joback Method
cpg	756.39	J/molxK	1101.39	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=U381018&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381018&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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