

# Succinic acid, 3,4-difluorobenzyl isobutyl ester

<b>Inchi:</b>	InChI=1S/C15H18F2O4/c1-10(2)8-20-14(18)5-6-15(19)21-9-11-3-4-12(16)13(17)7-11/h3
<b>InchiKey:</b>	LKCQCAYLURSECG-UHFFFAOYSA-N
<b>Formula:</b>	C15H18F2O4
<b>SMILES:</b>	CC(C)COC(=O)CCC(=O)OCc1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	300.30

## Physical Properties

Property code	Value	Unit	Source
gf	-691.33	kJ/mol	Joback Method
hf	-1026.44	kJ/mol	Joback Method
hfus	36.08	kJ/mol	Joback Method
hvap	68.87	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	2.987		Crippen Method
mvol	216.870	ml/mol	McGowan Method
pc	1815.41	kPa	Joback Method
rinpol	1880.00		NIST Webbook
rinpol	1880.00		NIST Webbook
tb	729.92	K	Joback Method
tc	923.67	K	Joback Method
tf	440.77	K	Joback Method
vc	0.846	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	608.93	J/mol×K	729.92	Joback Method
cpg	622.70	J/mol×K	762.21	Joback Method
cpg	635.61	J/mol×K	794.50	Joback Method
cpg	647.69	J/mol×K	826.80	Joback Method
cpg	658.93	J/mol×K	859.09	Joback Method
cpg	669.34	J/mol×K	891.38	Joback Method
cpg	678.92	J/mol×K	923.67	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=U381741&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381741&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>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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