

# Diethylmalonic acid, butyl 2-fluoroethyl ester

<b>Inchi:</b>	InChI=1S/C13H23FO4/c1-4-7-9-17-11(15)13(5-2,6-3)12(16)18-10-8-14/h4-10H2,1-3H3
<b>InchiKey:</b>	QZFYKLIPMOHSBU-UHFFFAOYSA-N
<b>Formula:</b>	C13H23FO4
<b>SMILES:</b>	CCCCOC(=O)C(CC)(CC)C(=O)OCCF
<b>Mol. weight [g/mol]:</b>	262.32

## Physical Properties

Property code	Value	Unit	Source
gf	-601.23	kJ/mol	Joback Method
hf	-1006.11	kJ/mol	Joback Method
hfus	30.67	kJ/mol	Joback Method
hvap	60.73	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.649		Crippen Method
mcvol	210.680	ml/mol	McGowan Method
pc	1736.11	kPa	Joback Method
rinpol	1464.00		NIST Webbook
rinpol	1464.00		NIST Webbook
tb	645.46	K	Joback Method
tc	823.05	K	Joback Method
tf	383.60	K	Joback Method
vc	0.819	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	579.17	J/molxK	645.46	Joback Method
cpg	594.19	J/molxK	675.06	Joback Method
cpg	608.48	J/molxK	704.66	Joback Method
cpg	622.04	J/molxK	734.26	Joback Method
cpg	634.88	J/molxK	763.86	Joback Method
cpg	647.03	J/molxK	793.45	Joback Method
cpg	658.50	J/molxK	823.05	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=U370859&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370859&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>

# 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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