

# Diethylmalonic acid, di(2-fluoroethyl) ester

<b>Inchi:</b>	InChI=1S/C11H18F2O4/c1-3-11(4-2,9(14)16-7-5-12)10(15)17-8-6-13/h3-8H2,1-2H3
<b>InchiKey:</b>	DYHDLQOKLCONU-UHFFFAOYSA-N
<b>Formula:</b>	C11H18F2O4
<b>SMILES:</b>	CCC(CC)(C(=O)OCCF)C(=O)OCCF
<b>Mol. weight [g/mol]:</b>	252.25

## Physical Properties

Property code	Value	Unit	Source
gf	-812.88	kJ/mol	Joback Method
hf	-1160.94	kJ/mol	Joback Method
hfus	28.57	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	1.818		Crippen Method
mcvol	184.270	ml/mol	McGowan Method
pc	1970.05	kPa	Joback Method
rinqol	1345.00		NIST Webbook
tb	598.97	K	Joback Method
tc	772.03	K	Joback Method
tf	361.65	K	Joback Method
vc	0.725	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.43	J/mol×K	598.97	Joback Method
cpg	497.78	J/mol×K	627.81	Joback Method
cpg	510.51	J/mol×K	656.66	Joback Method
cpg	522.61	J/mol×K	685.50	Joback Method
cpg	534.11	J/mol×K	714.34	Joback Method
cpg	545.01	J/mol×K	743.18	Joback Method
cpg	555.32	J/mol×K	772.03	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=U370868&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370868&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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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