

# Diethylmalonic acid, monochloride, 3-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H14ClFO3/c1-3-13(4-2,11(14)16)12(17)18-10-7-5-6-9(15)8-10/h5-8H,3-4H
<b>InchiKey:</b>	UKULKPHRFJYND-UHFFFAOYSA-N
<b>Formula:</b>	C13H14ClFO3
<b>SMILES:</b>	CCC(CC)(C(=O)Cl)C(=O)Oc1cccc(F)c1
<b>Mol. weight [g/mol]:</b>	272.70

## Physical Properties

Property code	Value	Unit	Source
gf	-405.38	kJ/mol	Joback Method
hf	-664.57	kJ/mol	Joback Method
hfus	27.33	kJ/mol	Joback Method
hvap	65.64	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	3.303		Crippen Method
mvol	193.290	ml/mol	McGowan Method
pc	2258.96	kPa	Joback Method
rinpol	1624.00		NIST Webbook
rinpol	1624.00		NIST Webbook
tb	692.13	K	Joback Method
tc	908.25	K	Joback Method
tf	430.23	K	Joback Method
vc	0.742	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.53	J/mol×K	692.13	Joback Method
cpg	511.46	J/mol×K	728.15	Joback Method
cpg	523.45	J/mol×K	764.17	Joback Method
cpg	534.55	J/mol×K	800.19	Joback Method
cpg	544.79	J/mol×K	836.21	Joback Method
cpg	554.21	J/mol×K	872.23	Joback Method
cpg	562.88	J/mol×K	908.25	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370206&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370206&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

# 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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