

# Diethylmalonic acid, 3-fluorophenyl pentyl ester

Inchi:	InChI=1S/C18H25FO4/c1-4-7-8-12-22-16(20)18(5-2,6-3)17(21)23-15-11-9-10-14(19)13-
InchiKey:	BCFPIXKAHFZDOQ-UHFFFAOYSA-N
Formula:	C18H25FO4
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1cccc(F)c1
Mol. weight [g/mol]:	324.39

## Physical Properties

Property code	Value	Unit	Source
gf	-456.35	kJ/mol	Joback Method
hf	-884.25	kJ/mol	Joback Method
hfus	37.27	kJ/mol	Joback Method
hvap	74.80	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.271		Crippen Method
mcvol	257.370	ml/mol	McGowan Method
pc	1521.12	kPa	Joback Method
rinsol	1939.00		NIST Webbook
tb	791.52	K	Joback Method
tc	992.18	K	Joback Method
tf	478.89	K	Joback Method
vc	0.991	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.38	J/molxK	791.52	Joback Method
cpg	785.77	J/molxK	824.96	Joback Method
cpg	800.10	J/molxK	858.41	Joback Method
cpg	813.42	J/molxK	891.85	Joback Method
cpg	825.77	J/molxK	925.29	Joback Method
cpg	837.16	J/molxK	958.73	Joback Method
cpg	847.65	J/molxK	992.18	Joback Method

# Sources

<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.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=U370199&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370199&amp;Units=SI</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>m cvol:</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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