

# Diethylmalonic acid, 3-fluorophenyl undecyl ester

<b>Inchi:</b>	InChI=1S/C24H37FO4/c1-4-7-8-9-10-11-12-13-14-18-28-22(26)24(5-2,6-3)23(27)29-21-
<b>InchiKey:</b>	BQKJCLQGXTWJNZ-UHFFFAOYSA-N
<b>Formula:</b>	C24H37FO4
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1cccc(F)c1
<b>Mol. weight [g/mol]:</b>	408.55

## Physical Properties

Property code	Value	Unit	Source
gf	-405.83	kJ/mol	Joback Method
hf	-1008.09	kJ/mol	Joback Method
hfus	52.81	kJ/mol	Joback Method
hvap	88.15	kJ/mol	Joback Method
log10ws	-7.44		Crippen Method
logp	6.611		Crippen Method
mvol	341.910	ml/mol	McGowan Method
pc	1014.24	kPa	Joback Method
rinpol	2548.00		NIST Webbook
rinpol	2548.00		NIST Webbook
tb	928.80	K	Joback Method
tc	1137.95	K	Joback Method
tf	546.51	K	Joback Method
vc	1.327	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.60	J/mol×K	928.80	Joback Method
cpg	1143.38	J/mol×K	963.66	Joback Method
cpg	1158.89	J/mol×K	998.52	Joback Method
cpg	1173.18	J/mol×K	1033.38	Joback Method
cpg	1186.31	J/mol×K	1068.24	Joback Method
cpg	1198.33	J/mol×K	1103.10	Joback Method
cpg	1209.30	J/mol×K	1137.95	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370203&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370203&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>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

Latest version available from:

<https://www.chemeo.com/cid/95-532-6/Diethylmalonic-acid-3-fluorophenyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-19 17:41:39.117633141 +0000 UTC m=+15837748.038210465.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.