

# Diethylmalonic acid, 4-fluoro-2-methoxyphenyl octyl ester

<b>Inchi:</b>	InChI=1S/C22H33FO5/c1-5-8-9-10-11-12-15-27-20(24)22(6-2,7-3)21(25)28-18-14-13-17
<b>InchiKey:</b>	BFARZKQPTJCKSD-UHFFFAOYSA-N
<b>Formula:</b>	C22H33FO5
<b>SMILES:</b>	CCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(F)cc1OC
<b>Mol. weight [g/mol]:</b>	396.49

## Physical Properties

Property code	Value	Unit	Source
gf	-537.30	kJ/mol	Joback Method
hf	-1110.50	kJ/mol	Joback Method
hfus	48.43	kJ/mol	Joback Method
hvap	86.77	kJ/mol	Joback Method
log10ws	-6.30		Crippen Method
logp	5.450		Crippen Method
mcvol	319.600	ml/mol	McGowan Method
pc	1126.08	kPa	Joback Method
rinsol	2441.00		NIST Webbook
tb	910.44	K	Joback Method
tc	1117.32	K	Joback Method
tf	558.72	K	Joback Method
vc	1.232	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1033.83	J/mol×K	910.44	Joback Method
cpg	1049.47	J/mol×K	944.92	Joback Method
cpg	1063.83	J/mol×K	979.40	Joback Method
cpg	1076.92	J/mol×K	1013.88	Joback Method
cpg	1088.78	J/mol×K	1048.36	Joback Method
cpg	1099.43	J/mol×K	1082.84	Joback Method
cpg	1108.91	J/mol×K	1117.32	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370887&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370887&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>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

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