

# Diethylmalonic acid, 2-fluorophenyl octyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C21H31FO4/c1-4-7-8-9-10-13-16-25-19(23)21(5-2,6-3)20(24)26-18-15-12-11-10

VVOOXCSQTAHHDS-UHFFFAOYSA-N

C21H31FO4

CCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccccc1F

366.47

## Physical Properties

Property code	Value	Unit	Source
gf	-431.09	kJ/mol	Joback Method
hf	-946.17	kJ/mol	Joback Method
hfus	45.04	kJ/mol	Joback Method
hvap	81.48	kJ/mol	Joback Method
log10ws	-6.18		Crippen Method
logp	5.441		Crippen Method
mcvol	299.640	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
rinpol	2267.00		NIST Webbook
rinpol	2267.00		NIST Webbook
tb	860.16	K	Joback Method
tc	1061.67	K	Joback Method
tf	512.70	K	Joback Method
vc	1.159	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	945.22	J/molxK	860.16	Joback Method
cpg	961.27	J/molxK	893.74	Joback Method
cpg	976.18	J/molxK	927.33	Joback Method
cpg	989.99	J/molxK	960.91	Joback Method
cpg	1002.76	J/molxK	994.50	Joback Method
cpg	1014.51	J/molxK	1028.08	Joback Method
cpg	1025.30	J/molxK	1061.67	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=U370132&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370132&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>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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