

# Diethylmalonic acid, 3,4-difluorobenzyl hexyl ester

<b>Inchi:</b>	InChI=1S/C20H28F2O4/c1-4-7-8-9-12-25-18(23)20(5-2,6-3)19(24)26-14-15-10-11-16(21)
<b>InchiKey:</b>	ZWOQMJBJPJHIJS-UHFFFAOYSA-N
<b>Formula:</b>	C20H28F2O4
<b>SMILES:</b>	CCCCCCOC(=O)C(CC)(CC)C(=O)OCc1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	370.43

## Physical Properties

Property code	Value	Unit	Source
gf	-643.95	kJ/mol	Joback Method
hf	-1133.11	kJ/mol	Joback Method
hfus	45.14	kJ/mol	Joback Method
hvap	79.10	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	4.938		Crippen Method
mcvol	287.320	ml/mol	McGowan Method
pc	1261.06	kPa	Joback Method
rinsol	2154.00		NIST Webbook
tb	841.53	K	Joback Method
tc	1039.03	K	Joback Method
tf	514.54	K	Joback Method
vc	1.121	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.81	J/molxK	841.53	Joback Method
cpg	908.16	J/molxK	874.45	Joback Method
cpg	922.44	J/molxK	907.36	Joback Method
cpg	935.68	J/molxK	940.28	Joback Method
cpg	947.93	J/molxK	973.20	Joback Method
cpg	959.21	J/molxK	1006.12	Joback Method
cpg	969.56	J/molxK	1039.03	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U369326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369326&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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