

# Diethylmalonic acid, hexyl pentafluorophenyl ester

Inchi:	InChI=1S/C19H23F5O4/c1-4-7-8-9-10-27-17(25)19(5-2,6-3)18(26)28-16-14(23)12(21)11
InchiKey:	WPSUHZCPTQKMBE-UHFFFAOYSA-N
Formula:	C19H23F5O4
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	410.38

## Physical Properties

Property code	Value	Unit	Source
gf	-1265.69	kJ/mol	Joback Method
hf	-1735.21	kJ/mol	Joback Method
hfus	50.62	kJ/mol	Joback Method
hvap	76.41	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	5.217		Crippen Method
mcvol	278.540	ml/mol	McGowan Method
pc	1189.06	kPa	Joback Method
rinpol	1887.00		NIST Webbook
rinpol	1887.00		NIST Webbook
tb	831.40	K	Joback Method
tc	1021.03	K	Joback Method
tf	542.60	K	Joback Method
vc	1.119	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	854.49	J/molxK	831.40	Joback Method
cpg	868.34	J/molxK	863.00	Joback Method
cpg	881.25	J/molxK	894.61	Joback Method
cpg	893.23	J/molxK	926.21	Joback Method
cpg	904.30	J/molxK	957.82	Joback Method
cpg	914.48	J/molxK	989.42	Joback Method
cpg	923.78	J/molxK	1021.03	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=U370213&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370213&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

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