

# Dimethylmalonic acid, dipentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C17H6F10O4/c1-17(2,15(28)30-13-9(24)5(20)3(18)6(21)10(13)25)16(29)31-14
<b>InchiKey:</b>	WWFPQFWWTZIEIC-UHFFFAOYSA-N
<b>Formula:</b>	C17H6F10O4
<b>SMILES:</b>	CC(C)(C(=O)Oc1c(F)c(F)c(F)c(F)c1F)C(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	464.21

## Physical Properties

Property code	Value	Unit	Source
gf	-2192.32	kJ/mol	Joback Method
hf	-2495.30	kJ/mol	Joback Method
hfus	52.94	kJ/mol	Joback Method
hvap	73.45	kJ/mol	Joback Method
log10ws	-7.24		Crippen Method
logp	4.615		Crippen Method
mcvol	235.450	ml/mol	McGowan Method
pc	1395.41	kPa	Joback Method
rinpol	1698.00		NIST Webbook
rinpol	1698.00		NIST Webbook
tb	833.57	K	Joback Method
tc	1024.37	K	Joback Method
tf	612.03	K	Joback Method
vc	0.989	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	677.31	J/mol×K	833.57	Joback Method
cpg	686.39	J/mol×K	865.37	Joback Method
cpg	694.68	J/mol×K	897.17	Joback Method
cpg	702.19	J/mol×K	928.97	Joback Method
cpg	708.92	J/mol×K	960.77	Joback Method
cpg	714.86	J/mol×K	992.57	Joback Method
cpg	720.01	J/mol×K	1024.37	Joback Method

# Sources

<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=U363676&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363676&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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