

# Dimethylmalonic acid, ethyl pentachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H11Cl5O4/c1-4-21-11(19)13(2,3)12(20)22-10-8(17)6(15)5(14)7(16)9(10)18
<b>InchiKey:</b>	BUDYUENCDUJLKS-UHFFFAOYSA-N
<b>Formula:</b>	C13H11Cl5O4
<b>SMILES:</b>	CCOC(=O)C(C)(C)C(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	408.49

## Physical Properties

Property code	Value	Unit	Source
gf	-401.81	kJ/mol	Joback Method
hf	-709.52	kJ/mol	Joback Method
hfus	40.67	kJ/mol	Joback Method
hvap	89.06	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	5.448		Crippen Method
mvol	246.350	ml/mol	McGowan Method
pc	1916.94	kPa	Joback Method
rinpol	2462.00		NIST Webbook
rinpol	2462.00		NIST Webbook
tb	884.92	K	Joback Method
tc	1121.55	K	Joback Method
tf	621.63	K	Joback Method
vc	0.938	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	592.56	J/molxK	884.92	Joback Method
cpg	600.85	J/molxK	924.36	Joback Method
cpg	608.20	J/molxK	963.80	Joback Method
cpg	614.63	J/molxK	1003.23	Joback Method
cpg	620.16	J/molxK	1042.67	Joback Method
cpg	624.78	J/molxK	1082.11	Joback Method
cpg	628.53	J/molxK	1121.55	Joback Method
dvisc	0.0002616	Paxs	621.63	Joback Method

dvisc	0.0001874	Paxs	665.51	Joback Method
dvisc	0.0001399	Paxs	709.39	Joback Method
dvisc	0.0001080	Paxs	753.27	Joback Method
dvisc	0.0000859	Paxs	797.16	Joback Method
dvisc	0.0000699	Paxs	841.04	Joback Method
dvisc	0.0000581	Paxs	884.92	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=U363926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363926&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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