

# Dimethylmalonic acid, 2,3-dichlorophenyl hexyl ester

<b>Inchi:</b>	InChI=1S/C17H22Cl2O4/c1-4-5-6-7-11-22-15(20)17(2,3)16(21)23-13-10-8-9-12(18)14(19)
<b>InchiKey:</b>	CAEKXFNNLFPQMO-UHFFFAOYSA-N
<b>Formula:</b>	C17H22Cl2O4
<b>SMILES:</b>	CCCCCOC(=O)C(C)(C)C(=O)Oc1cccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	361.26

## Physical Properties

Property code	Value	Unit	Source
gf	-303.45	kJ/mol	Joback Method
hf	-710.45	kJ/mol	Joback Method
hfus	39.60	kJ/mol	Joback Method
hvap	82.82	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	5.048		Crippen Method
mcvol	265.990	ml/mol	McGowan Method
pc	1584.75	kPa	Joback Method
rinpol	2262.00		NIST Webbook
tb	849.21	K	Joback Method
tc	1065.57	K	Joback Method
tf	539.39	K	Joback Method
vc	1.014	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	756.53	J/molxK	849.21	Joback Method
cpg	769.72	J/molxK	885.27	Joback Method
cpg	781.86	J/molxK	921.33	Joback Method
cpg	792.96	J/molxK	957.39	Joback Method
cpg	803.08	J/molxK	993.45	Joback Method
cpg	812.24	J/molxK	1029.51	Joback Method
cpg	820.49	J/molxK	1065.57	Joback Method
dvisc	0.0004241	Paxs	539.39	Joback Method
dvisc	0.0002541	Paxs	591.03	Joback Method

dvisc	0.0001653	Paxs	642.66	Joback Method
dvisc	0.0001147	Paxs	694.30	Joback Method
dvisc	0.0000837	Paxs	745.94	Joback Method
dvisc	0.0000636	Paxs	797.57	Joback Method
dvisc	0.0000500	Paxs	849.21	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=U363624&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363624&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>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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