

# Diethylmalonic acid, 2,4-dichloro-6-formylphenyl propyl ester

Inchi:	InChI=1S/C17H20Cl2O5/c1-4-7-23-15(21)17(5-2,6-3)16(22)24-14-11(10-20)8-12(18)9-13
InchiKey:	NMRCKKZDBLSAAF-UHFFFAOYSA-N
Formula:	C17H20Cl2O5
SMILES:	CCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)cc1C=O
Mol. weight [g/mol]:	375.24

## Physical Properties

Property code	Value	Unit	Source
gf	-412.60	kJ/mol	Joback Method
hf	-807.50	kJ/mol	Joback Method
hfus	41.50	kJ/mol	Joback Method
hvap	90.20	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	4.471		Crippen Method
mvol	267.560	ml/mol	McGowan Method
pc	1661.90	kPa	Joback Method
rinpol	2308.00		NIST Webbook
rinpol	2308.00		NIST Webbook
tb	902.85	K	Joback Method
tc	1123.79	K	Joback Method
tf	593.91	K	Joback Method
vc	1.032	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	765.21	J/molxK	902.85	Joback Method
cpg	776.43	J/molxK	939.67	Joback Method
cpg	786.60	J/molxK	976.50	Joback Method
cpg	795.74	J/molxK	1013.32	Joback Method
cpg	803.89	J/molxK	1050.14	Joback Method
cpg	811.07	J/molxK	1086.97	Joback Method
cpg	817.32	J/molxK	1123.79	Joback Method
dvisc	0.0003606	Paxs	593.91	Joback Method

dvisc	0.0002314	Paxs	645.40	Joback Method
dvisc	0.0001585	Paxs	696.89	Joback Method
dvisc	0.0001144	Paxs	748.38	Joback Method
dvisc	0.0000861	Paxs	799.87	Joback Method
dvisc	0.0000671	Paxs	851.36	Joback Method
dvisc	0.0000538	Paxs	902.85	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=U370062&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370062&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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