

# Diethylmalonic acid, monochloride, 8-chlorooctyl ester

Inchi:	InChI=1S/C15H26Cl2O3/c1-3-15(4-2,13(17)18)14(19)20-12-10-8-6-5-7-9-11-16/h3-12H2
InchiKey:	CNVCGVRDINAEJD-UHFFFAOYSA-N
Formula:	C15H26Cl2O3
SMILES:	CCC(CC)(C(=O)Cl)C(=O)OCCCCCCCCCl
Mol. weight [g/mol]:	325.27

## Physical Properties

Property code	Value	Unit	Source
gf	-308.44	kJ/mol	Joback Method
hf	-750.54	kJ/mol	Joback Method
hfus	39.97	kJ/mol	Joback Method
hvap	72.36	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.681		Crippen Method
mcvol	255.700	ml/mol	McGowan Method
pc	1474.75	kPa	Joback Method
rinpola	2071.00		NIST Webbook
rinpola	2071.00		NIST Webbook
tb	744.39	K	Joback Method
tc	935.35	K	Joback Method
tf	443.16	K	Joback Method
vc	0.993	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	710.91	J/molxK	744.39	Joback Method
cpg	725.76	J/molxK	776.22	Joback Method
cpg	739.74	J/molxK	808.04	Joback Method
cpg	752.89	J/molxK	839.87	Joback Method
cpg	765.25	J/molxK	871.70	Joback Method
cpg	776.85	J/molxK	903.53	Joback Method
cpg	787.73	J/molxK	935.35	Joback Method
dvisc	0.0012784	Paxs	443.16	Joback Method

dvisc	0.0006537	Paxs	493.36	Joback Method
dvisc	0.0003784	Paxs	543.57	Joback Method
dvisc	0.0002403	Paxs	593.77	Joback Method
dvisc	0.0001637	Paxs	643.98	Joback Method
dvisc	0.0001180	Paxs	694.18	Joback Method
dvisc	0.0000888	Paxs	744.39	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=U370759&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370759&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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