

# Diethylmalonic acid, monochloride, 2,4,4-trimethylpentyl ester

Inchi:	InChI=1S/C15H27ClO3/c1-7-15(8-2,12(16)17)13(18)19-10-11(3)9-14(4,5)6/h11H,7-10H2
InchiKey:	BFCBLBSMZGPTHY-UHFFFAOYSA-N
Formula:	C15H27ClO3
SMILES:	CCC(CC)(C(=O)Cl)C(=O)OCC(C)CC(C)(C)C
Mol. weight [g/mol]:	290.83

## Physical Properties

Property code	Value	Unit	Source
gf	-296.11	kJ/mol	Joback Method
hf	-748.83	kJ/mol	Joback Method
hfus	24.84	kJ/mol	Joback Method
hvap	66.29	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	4.174		Crippen Method
mcvol	243.460	ml/mol	McGowan Method
pc	1550.00	kPa	Joback Method
rinpol	1583.00		NIST Webbook
tb	703.29	K	Joback Method
tc	900.49	K	Joback Method
tf	400.66	K	Joback Method
vc	0.926	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.49	J/molxK	703.29	Joback Method
cpg	757.48	J/molxK	867.62	Joback Method
cpg	744.68	J/molxK	834.76	Joback Method
cpg	731.04	J/molxK	801.89	Joback Method
cpg	716.50	J/molxK	769.02	Joback Method
cpg	701.00	J/molxK	736.16	Joback Method
cpg	769.47	J/molxK	900.49	Joback Method
dvisc	0.0000800	Paxs	703.29	Joback Method
dvisc	0.0001116	Paxs	652.85	Joback Method

dvisc	0.0001645	Paxs	602.41	Joback Method
dvisc	0.0002604	Paxs	551.97	Joback Method
dvisc	0.0004520	Paxs	501.54	Joback Method
dvisc	0.0008878	Paxs	451.10	Joback Method
dvisc	0.0020665	Paxs	400.66	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=U369492&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369492&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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