

# Malonic acid, 2-chloropropyl nonyl ester

<b>Inchi:</b>	InChI=1S/C15H27ClO4/c1-3-4-5-6-7-8-9-10-19-14(17)11-15(18)20-12-13(2)16/h13H,3-1
<b>InchiKey:</b>	VVUNFCIBQWZLJJ-UHFFFAOYSA-N
<b>Formula:</b>	C15H27ClO4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	306.82

## Physical Properties

Property code	Value	Unit	Source
gf	-406.79	kJ/mol	Joback Method
hf	-863.55	kJ/mol	Joback Method
hfus	40.85	kJ/mol	Joback Method
hvap	71.29	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.841		Crippen Method
mcvol	249.330	ml/mol	McGowan Method
pc	1485.00	kPa	Joback Method
rinsol	2006.00		NIST Webbook
tb	732.17	K	Joback Method
tc	914.96	K	Joback Method
tf	418.05	K	Joback Method
vc	0.967	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.70	J/mol×K	732.17	Joback Method
cpg	724.18	J/mol×K	762.64	Joback Method
cpg	738.83	J/mol×K	793.10	Joback Method
cpg	752.66	J/mol×K	823.57	Joback Method
cpg	765.68	J/mol×K	854.03	Joback Method
cpg	777.89	J/mol×K	884.50	Joback Method
cpg	789.31	J/mol×K	914.96	Joback Method
dvisc	0.0013342	Paxs	418.05	Joback Method
dvisc	0.0006557	Paxs	470.40	Joback Method

dvisc	0.0003715	Paxs	522.76	Joback Method
dvisc	0.0002334	Paxs	575.11	Joback Method
dvisc	0.0001585	Paxs	627.46	Joback Method
dvisc	0.0001142	Paxs	679.82	Joback Method
dvisc	0.0000863	Paxs	732.17	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=U349031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349031&amp;Units=SI</a>
<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>

## 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>mccvol:</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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