

# Malonic acid, 2-chloropropyl hexyl ester

<b>Inchi:</b>	InChI=1S/C12H21ClO4/c1-3-4-5-6-7-16-11(14)8-12(15)17-9-10(2)13/h10H,3-9H2,1-2H3
<b>InchiKey:</b>	XHGYTOCDBVKYCB-UHFFFAOYSA-N
<b>Formula:</b>	C12H21ClO4
<b>SMILES:</b>	CCCCCCOC(=O)CC(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	264.75

## Physical Properties

Property code	Value	Unit	Source
gf	-432.05	kJ/mol	Joback Method
hf	-801.63	kJ/mol	Joback Method
hfus	33.08	kJ/mol	Joback Method
hvap	64.62	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.671		Crippen Method
mcvol	207.060	ml/mol	McGowan Method
pc	1878.90	kPa	Joback Method
rinsol	1722.00		NIST Webbook
tb	663.53	K	Joback Method
tc	848.07	K	Joback Method
tf	384.24	K	Joback Method
vc	0.798	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.79	J/molxK	663.53	Joback Method
cpg	559.86	J/molxK	694.29	Joback Method
cpg	573.23	J/molxK	725.04	Joback Method
cpg	585.92	J/molxK	755.80	Joback Method
cpg	597.91	J/molxK	786.56	Joback Method
cpg	609.21	J/molxK	817.32	Joback Method
cpg	619.82	J/molxK	848.07	Joback Method
dvisc	0.0017583	Paxs	384.24	Joback Method
dvisc	0.0008988	Paxs	430.79	Joback Method

dvisc	0.0005237	Paxs	477.34	Joback Method
dvisc	0.0003359	Paxs	523.88	Joback Method
dvisc	0.0002316	Paxs	570.43	Joback Method
dvisc	0.0001690	Paxs	616.98	Joback Method
dvisc	0.0001288	Paxs	663.53	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=U349028&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349028&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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