

# Malonic acid, butyl 2,2-dichloroethyl ester

<b>Inchi:</b>	InChI=1S/C9H14Cl2O4/c1-2-3-4-14-8(12)5-9(13)15-6-7(10)11/h7H,2-6H2,1H3
<b>InchiKey:</b>	OXMJTLDSJUOPRS-UHFFFAOYSA-N
<b>Formula:</b>	C9H14Cl2O4
<b>SMILES:</b>	CCCCOC(=O)CC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	257.11

## Physical Properties

Property code	Value	Unit	Source
gf	-469.24	kJ/mol	Joback Method
hf	-755.45	kJ/mol	Joback Method
hfus	29.51	kJ/mol	Joback Method
hvap	62.32	kJ/mol	Joback Method
log10ws	-2.23		Crippen Method
logp	2.067		Crippen Method
mcvol	177.030	ml/mol	McGowan Method
pc	2365.67	kPa	Joback Method
rinqol	1557.00		NIST Webbook
tb	632.32	K	Joback Method
tc	826.21	K	Joback Method
tf	380.35	K	Joback Method
vc	0.679	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.84	J/molxK	632.32	Joback Method
cpg	472.05	J/molxK	793.90	Joback Method
cpg	462.98	J/molxK	761.58	Joback Method
cpg	453.33	J/molxK	729.27	Joback Method
cpg	443.08	J/molxK	696.95	Joback Method
cpg	432.25	J/molxK	664.64	Joback Method
cpg	480.52	J/molxK	826.21	Joback Method
dvisc	0.0001696	Paxs	632.32	Joback Method
dvisc	0.0002191	Paxs	590.32	Joback Method

dvisc	0.0002944	Paxs	548.33	Joback Method
dvisc	0.0004153	Paxs	506.33	Joback Method
dvisc	0.0006234	Paxs	464.34	Joback Method
dvisc	0.0010147	Paxs	422.34	Joback Method
dvisc	0.0018392	Paxs	380.35	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=U349061&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349061&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>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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