

# Chloroacetic acid, 4-methoxy-2-methylbutyl ester

Inchi:	InChI=1S/C8H15ClO3/c1-7(3-4-11-2)6-12-8(10)5-9/h7H,3-6H2,1-2H3
InchiKey:	IODHLYFOVDUSHK-UHFFFAOYSA-N
Formula:	C8H15ClO3
SMILES:	COCCC(C)COC(=O)CCl
Mol. weight [g/mol]:	194.66

## Physical Properties

Property code	Value	Unit	Source
gf	-336.81	kJ/mol	Joback Method
hf	-606.49	kJ/mol	Joback Method
hfus	21.12	kJ/mol	Joback Method
hvap	48.97	kJ/mol	Joback Method
log10ws	-1.03		Crippen Method
logp	1.441		Crippen Method
mvol	149.130	ml/mol	McGowan Method
pc	2535.37	kPa	Joback Method
rinpol	1285.00		NIST Webbook
rinpol	1285.00		NIST Webbook
tb	518.14	K	Joback Method
tc	701.81	K	Joback Method
tf	289.23	K	Joback Method
vc	0.569	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.74	J/molxK	518.14	Joback Method
cpg	387.32	J/molxK	671.20	Joback Method
cpg	377.12	J/molxK	640.58	Joback Method
cpg	366.45	J/molxK	609.97	Joback Method
cpg	355.33	J/molxK	579.36	Joback Method
cpg	343.76	J/molxK	548.75	Joback Method
cpg	397.07	J/molxK	701.81	Joback Method
dvisc	0.0002013	Paxs	518.14	Joback Method

dvisc	0.0002638	Paxs	479.99	Joback Method
dvisc	0.0003623	Paxs	441.84	Joback Method
dvisc	0.0005283	Paxs	403.69	Joback Method
dvisc	0.0008334	Paxs	365.53	Joback Method
dvisc	0.0014621	Paxs	327.38	Joback Method
dvisc	0.0029751	Paxs	289.23	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354608&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354608&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>
<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>

## 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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