

# Acetic acid, bromochloro-, methyl ester

<b>Other names:</b>	Methyl bromochloroacetate
<b>Inchi:</b>	InChI=1S/C3H4BrClO2/c1-7-3(6)2(4)5/h2H,1H3
<b>InchiKey:</b>	WIBYPHGWXYLWQX-UHFFFAOYSA-N
<b>Formula:</b>	C3H4BrClO2
<b>SMILES:</b>	COC(=O)C(Cl)Br
<b>Mol. weight [g/mol]:</b>	187.42
<b>CAS:</b>	20428-74-4

## Physical Properties

Property code	Value	Unit	Source
gf	-259.59	kJ/mol	Joback Method
hf	-344.74	kJ/mol	Joback Method
hfus	12.27	kJ/mol	Joback Method
hvap	41.86	kJ/mol	Joback Method
log10ws	-1.13		Crippen Method
logp	1.119		Crippen Method
mcvol	90.310	ml/mol	McGowan Method
pc	4959.33	kPa	Joback Method
rinpol	892.00		NIST Webbook
rinpol	892.00		NIST Webbook
tb	447.48	K	Joback Method
tc	660.61	K	Joback Method
tf	270.45	K	Joback Method
vc	0.333	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	142.95	J/molxK	447.48	Joback Method
cpg	148.40	J/molxK	483.00	Joback Method
cpg	153.59	J/molxK	518.52	Joback Method
cpg	158.53	J/molxK	554.04	Joback Method
cpg	163.21	J/molxK	589.56	Joback Method
cpg	167.65	J/molxK	625.08	Joback Method

cpg	171.84	J/mol×K	660.61	Joback Method
dvisc	0.0033184	Paxs	270.45	Joback Method
dvisc	0.0019547	Paxs	299.95	Joback Method
dvisc	0.0012659	Paxs	329.46	Joback Method
dvisc	0.0008805	Paxs	358.97	Joback Method
dvisc	0.0006472	Paxs	388.47	Joback Method
dvisc	0.0004968	Paxs	417.98	Joback Method
dvisc	0.0003949	Paxs	447.48	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=C20428744&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20428744&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>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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