

# Acetic acid, bromo-, 2-methylpropyl ester

<b>Other names:</b>	Bromoacetic acid, 2-methylpropyl ester Isobutyl bromoacetate
<b>Inchi:</b>	InChI=1S/C6H11BrO2/c1-5(2)4-9-6(8)3-7/h5H,3-4H2,1-2H3
<b>InchiKey:</b>	UOUQDZFAJUNYQQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H11BrO2
<b>SMILES:</b>	CC(C)COC(=O)CBr
<b>Mol. weight [g/mol]:</b>	195.05
<b>CAS:</b>	59956-48-8

## Physical Properties

Property code	Value	Unit	Source
gf	-222.40	kJ/mol	Joback Method
hf	-390.92	kJ/mol	Joback Method
hfus	15.85	kJ/mol	Joback Method
hvap	44.15	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.580		Crippen Method
mcvol	120.340	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
rinpol	1025.80		NIST Webbook
rinpol	1021.00		NIST Webbook
rinpol	1021.00		NIST Webbook
rinpol	1021.00		NIST Webbook
rinpol	1021.00		NIST Webbook
rinpol	1025.80		NIST Webbook
ripol	1488.00		NIST Webbook
ripol	1488.00		NIST Webbook
tb	478.69	K	Joback Method
tc	677.47	K	Joback Method
tf	274.34	K	Joback Method
vc	0.452	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.52	J/mol×K	478.69	Joback Method
cpg	245.58	J/mol×K	511.82	Joback Method
cpg	255.20	J/mol×K	544.95	Joback Method
cpg	264.38	J/mol×K	578.08	Joback Method
cpg	273.13	J/mol×K	611.21	Joback Method
cpg	281.46	J/mol×K	644.34	Joback Method
cpg	289.37	J/mol×K	677.47	Joback Method
dvisc	0.0035442	Paxs	274.34	Joback Method
dvisc	0.0018866	Paxs	308.40	Joback Method
dvisc	0.0011385	Paxs	342.46	Joback Method
dvisc	0.0007528	Paxs	376.51	Joback Method
dvisc	0.0005331	Paxs	410.57	Joback Method
dvisc	0.0003980	Paxs	444.63	Joback Method
dvisc	0.0003098	Paxs	478.69	Joback Method

## Sources

<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=C59956488&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C59956488&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>

## 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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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