

# 2-Bromopropionic acid, 3-methylbutyl ester

<b>Other names:</b>	Propanoic acid, 2-bromo, 3-methylbutyl ester Propanoic acid, 2-bromo, isopentyl ester Isopentyl 2-bromopropanoate
<b>Inchi:</b>	InChI=1S/C8H15BrO2/c1-6(2)4-5-11-8(10)7(3)9/h6-7H,4-5H2,1-3H3
<b>InchiKey:</b>	GVDWMKVPTHSZKA-UHFFFAOYSA-N
<b>Formula:</b>	C8H15BrO2
<b>SMILES:</b>	CC(C)CCOC(=O)C(C)Br
<b>Mol. weight [g/mol]:</b>	223.11
<b>CAS:</b>	86711-74-2

## Physical Properties

Property code	Value	Unit	Source
gf	-208.00	kJ/mol	Joback Method
hf	-437.48	kJ/mol	Joback Method
hfus	17.50	kJ/mol	Joback Method
hvap	48.22	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	2.359		Crippen Method
mcvol	148.520	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
rinpol	1156.00		NIST Webbook
rinpol	1163.00		NIST Webbook
ripol	1540.00		NIST Webbook
tb	524.01	K	Joback Method
tc	721.87	K	Joback Method
tf	281.88	K	Joback Method
vc	0.557	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.93	J/molxK	524.01	Joback Method
cpg	333.49	J/molxK	556.99	Joback Method
cpg	345.46	J/molxK	589.96	Joback Method

cpg	356.85	J/molxK	622.94	Joback Method
cpg	367.67	J/molxK	655.92	Joback Method
cpg	377.94	J/molxK	688.90	Joback Method
cpg	387.67	J/molxK	721.87	Joback Method
dvisc	0.0045596	Paxs	281.88	Joback Method
dvisc	0.0020562	Paxs	322.24	Joback Method
dvisc	0.0011072	Paxs	362.59	Joback Method
dvisc	0.0006748	Paxs	402.94	Joback Method
dvisc	0.0004501	Paxs	443.30	Joback Method
dvisc	0.0003212	Paxs	483.65	Joback Method
dvisc	0.0002415	Paxs	524.01	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=C86711742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C86711742&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>ripol:</b>	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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