

# Propanoic acid, 2-bromo-, (.+/-.)-

<b>Inchi:</b>	InChI=1S/C3H5BrO2/c1-2(4)3(5)6/h2H,1H3,(H,5,6)
<b>InchiKey:</b>	MONMFXREYOKQTI-UHFFFAOYSA-N
<b>Formula:</b>	C3H5BrO2
<b>SMILES:</b>	CC(Br)C(=O)O
<b>Mol. weight [g/mol]:</b>	152.97
<b>CAS:</b>	10327-08-9

## Physical Properties

Property code	Value	Unit	Source
gf	-279.48	kJ/mol	Joback Method
hf	-349.01	kJ/mol	Joback Method
hfus	10.97	kJ/mol	Joback Method
hvap	51.74	kJ/mol	Joback Method
log10ws	-0.72		Crippen Method
logp	0.854		Crippen Method
mcvol	78.070	ml/mol	McGowan Method
pc	6161.14	kPa	Joback Method
tb	476.70	K	NIST Webbook
tc	675.66	K	Joback Method
tf	279.12	K	Joback Method
vc	0.284	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.48	J/molxK	479.81	Joback Method
cpg	141.65	J/molxK	512.45	Joback Method
cpg	146.53	J/molxK	545.09	Joback Method
cpg	151.14	J/molxK	577.73	Joback Method
cpg	155.49	J/molxK	610.37	Joback Method
cpg	159.58	J/molxK	643.02	Joback Method
cpg	163.43	J/molxK	675.66	Joback Method
dvisc	0.0217983	Paxs	279.12	Joback Method
dvisc	0.0072223	Paxs	312.57	Joback Method

dvisc	0.0029627	Paxs	346.02	Joback Method
dvisc	0.0014220	Paxs	379.47	Joback Method
dvisc	0.0007687	Paxs	412.91	Joback Method
dvisc	0.0004557	Paxs	446.36	Joback Method
dvisc	0.0002906	Paxs	479.81	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	369.20	K	1.30	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C10327089&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10327089&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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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