

# 2-Norbornaneacetic acid

<b>Other names:</b>	Bicyclo[2.2.1]heptane-2-acetic acid norborn-2-ylacetic acid
<b>Inchi:</b>	InChI=1S/C9H14O2/c10-9(11)5-8-4-6-1-2-7(8)3-6/h6-8H,1-5H2,(H,10,11)
<b>InchiKey:</b>	FYHBMPWRHCWNBC-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O2
<b>SMILES:</b>	O=C(O)CC1CC2CCC1C2
<b>Mol. weight [g/mol]:</b>	154.21
<b>CAS:</b>	1007-01-8

## Physical Properties

Property code	Value	Unit	Source
gf	-139.15	kJ/mol	Joback Method
hf	-374.80	kJ/mol	Joback Method
hfus	19.99	kJ/mol	Joback Method
hvap	58.74	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.897		Crippen Method
mvol	123.390	ml/mol	McGowan Method
pc	3564.27	kPa	Joback Method
tb	564.45	K	Joback Method
tc	761.50	K	Joback Method
tf	330.06	K	Joback Method
vc	0.469	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.44	J/molxK	564.45	Joback Method
cpg	342.32	J/molxK	597.29	Joback Method
cpg	355.35	J/molxK	630.13	Joback Method
cpg	367.59	J/molxK	662.97	Joback Method
cpg	379.08	J/molxK	695.82	Joback Method
cpg	389.89	J/molxK	728.66	Joback Method
cpg	400.05	J/molxK	761.50	Joback Method

dvisc	0.0069120	Paxs	330.06	Joback Method
dvisc	0.0035733	Paxs	369.12	Joback Method
dvisc	0.0020959	Paxs	408.19	Joback Method
dvisc	0.0013495	Paxs	447.25	Joback Method
dvisc	0.0009325	Paxs	486.32	Joback Method
dvisc	0.0006808	Paxs	525.38	Joback Method
dvisc	0.0005192	Paxs	564.45	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	380.70	K	0.40	NIST Webbook

## 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=C1007018&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1007018&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>mccvol:</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

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

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