

# 5-Norbornane-2-carboxaldehyde

<b>Other names:</b>	5-Formylbicyclohept-2-ene 5-Norbornene-2-carboxaldehyde Bicyclo[2.2.1]hept-5-en-2-aldehyde 2-Formyl-5-norbornene 5-Formylbicyclo-2-heptene Bicyclo[2.2.1]-5-hepten-2-yl-methanal Bicyclo[2.2.1]hept-5-ene-2-carbaldehyde Bicyclo[2.2.1]hept-5-ene-2-carboxaldehyde
<b>Inchi:</b>	InChI=1S/C8H10O/c9-5-8-4-6-1-2-7(8)3-6/h1-2,5-8H,3-4H2
<b>InchiKey:</b>	AJIBZRIAUXVGQJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H10O
<b>SMILES:</b>	O=CC1CC2C=CC1C2
<b>Mol. weight [g/mol]:</b>	122.16
<b>CAS:</b>	5453-80-5

## Physical Properties

Property code	Value	Unit	Source
gf	48.61	kJ/mol	Joback Method
hf	-117.15	kJ/mol	Joback Method
hfus	15.23	kJ/mol	Joback Method
hvap	40.10	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	1.397		Crippen Method
mcvol	99.130	ml/mol	McGowan Method
pc	3791.65	kPa	Joback Method
tb	443.34	K	Joback Method
tc	653.20	K	Joback Method
tf	250.80	K	Joback Method
vc	0.392	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.63	J/molxK	443.34	Joback Method

cpg	275.63	J/mol×K	618.22	Joback Method
cpg	264.58	J/mol×K	583.25	Joback Method
cpg	252.71	J/mol×K	548.27	Joback Method
cpg	239.97	J/mol×K	513.29	Joback Method
cpg	226.29	J/mol×K	478.32	Joback Method
cpg	285.93	J/mol×K	653.20	Joback Method
dvisc	0.0007902	Paxs	443.34	Joback Method
dvisc	0.0008034	Paxs	411.25	Joback Method
dvisc	0.0008192	Paxs	379.16	Joback Method
dvisc	0.0008384	Paxs	347.07	Joback Method
dvisc	0.0008620	Paxs	314.98	Joback Method
dvisc	0.0008918	Paxs	282.89	Joback Method
dvisc	0.0009308	Paxs	250.80	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	341.70	K	1.60	NIST Webbook

## Sources

<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=C5453805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5453805&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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
<b>vc:</b>	Critical Volume

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