

# Bicyclo[2.2.2]octane, 1-iodo-

<b>Other names:</b>	1-Iodobicyclo[2.2.2]octane
<b>Inchi:</b>	InChI=1S/C8H13I/c9-8-4-1-7(2-5-8)3-6-8/h7H,1-6H2
<b>InchiKey:</b>	SMDJHIPXLFNPTJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H13I
<b>SMILES:</b>	IC12CCC(CC1)CC2
<b>Mol. weight [g/mol]:</b>	236.09
<b>CAS:</b>	931-98-6

## Physical Properties

Property code	Value	Unit	Source
gf	166.41	kJ/mol	Joback Method
hf	16.94	kJ/mol	Joback Method
hfus	6.65	kJ/mol	Joback Method
hvap	41.79	kJ/mol	Joback Method
ie	8.87	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
log10ws	-3.78		Crippen Method
logp	3.144		Crippen Method
mcvol	127.680	ml/mol	McGowan Method
pc	3659.77	kPa	Joback Method
tb	497.84	K	Joback Method
tc	757.33	K	Joback Method
tf	290.72	K	Joback Method
vc	0.468	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.16	J/molxK	497.84	Joback Method
cpg	278.67	J/molxK	541.09	Joback Method
cpg	294.46	J/molxK	584.34	Joback Method
cpg	308.78	J/molxK	627.58	Joback Method
cpg	321.92	J/molxK	670.83	Joback Method
cpg	334.15	J/molxK	714.08	Joback Method

## Sources

<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=C931986&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C931986&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ie:</b>	Ionization energy
<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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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