

# 1-Methylbicyclo-(2,2,1)-heptane

Inchi:	InChI=1S/C8H14/c1-8-4-2-7(6-8)3-5-8/h7H,2-6H2,1H3
InchiKey:	UTPHVTOEOCZQJU-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	CC12CCC(CC1)C2
Mol. weight [g/mol]:	110.20

## Physical Properties

Property code	Value	Unit	Source
gf	120.39	kJ/mol	Joback Method
hf	-53.77	kJ/mol	Joback Method
hfus	4.35	kJ/mol	Joback Method
hvap	32.25	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	2.587		Crippen Method
mcvol	101.860	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	775.40		NIST Webbook
rinpol	779.00		NIST Webbook
rinpol	775.40		NIST Webbook
tb	400.43	K	Joback Method
tc	611.15	K	Joback Method
tf	236.18	K	Joback Method
vc	0.388	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.59	J/mol×K	400.43	Joback Method
cpg	218.79	J/mol×K	435.55	Joback Method
cpg	235.46	J/mol×K	470.67	Joback Method
cpg	250.75	J/mol×K	505.79	Joback Method
cpg	264.80	J/mol×K	540.91	Joback Method
cpg	277.76	J/mol×K	576.03	Joback Method
cpg	289.76	J/mol×K	611.15	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=R164615&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R164615&amp;Units=SI</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>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>rinpola:</b>	Non-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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