

# Bicyclo[7.1.0]decane

<b>Inchi:</b>	InChI=1S/C10H18/c1-2-4-6-9-8-10(9)7-5-3-1/h9-10H,1-8H2
<b>InchiKey:</b>	SAXQCCHLVOICGG-UHFFFAOYSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	C1CCCC2CC2CCC1
<b>Mol. weight [g/mol]:</b>	138.25
<b>CAS:</b>	286-76-0

## Physical Properties

Property code	Value	Unit	Source
gf	106.42	kJ/mol	Joback Method
hf	-128.77	kJ/mol	Joback Method
hfus	9.53	kJ/mol	Joback Method
hvap	38.37	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	3.367		Crippen Method
mcvol	130.040	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
rinpol	1090.00		NIST Webbook
rinpol	1090.00		NIST Webbook
tb	458.76	K	Joback Method
tc	680.81	K	Joback Method
tf	224.26	K	Joback Method
vc	0.477	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.16	J/mol×K	458.76	Joback Method
cpg	385.09	J/mol×K	643.80	Joback Method
cpg	367.80	J/mol×K	606.79	Joback Method
cpg	349.32	J/mol×K	569.78	Joback Method
cpg	329.59	J/mol×K	532.78	Joback Method
cpg	308.56	J/mol×K	495.77	Joback Method
cpg	401.24	J/mol×K	680.81	Joback Method

dvisc	0.0004040	Paxs	458.76	Joback Method
dvisc	0.0005024	Paxs	419.68	Joback Method
dvisc	0.0006533	Paxs	380.59	Joback Method
dvisc	0.0009023	Paxs	341.51	Joback Method
dvisc	0.0013547	Paxs	302.43	Joback Method
dvisc	0.0022946	Paxs	263.34	Joback Method
dvisc	0.0046703	Paxs	224.26	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=C286760&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C286760&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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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