

# 1-Azaspiro(4.5)decane

<b>Inchi:</b>	InChI=1S/C9H17N/c1-2-5-9(6-3-1)7-4-8-10-9/h10H,1-8H2
<b>InchiKey:</b>	LGKNCSVHCNCJQG-UHFFFAOYSA-N
<b>Formula:</b>	C9H17N
<b>SMILES:</b>	C1CCC2(CC1)CCCN2
<b>Mol. weight [g/mol]:</b>	139.24
<b>CAS:</b>	176-80-7

## Physical Properties

Property code	Value	Unit	Source
gf	187.93	kJ/mol	Joback Method
hf	-34.74	kJ/mol	Joback Method
hfus	9.16	kJ/mol	Joback Method
hvap	42.06	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.073		Crippen Method
mcvol	125.930	ml/mol	McGowan Method
pc	3815.10	kPa	Joback Method
tb	489.34	K	Joback Method
tc	732.16	K	Joback Method
tf	346.16	K	Joback Method
vc	0.458	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.14	J/molxK	489.34	Joback Method
cpg	310.19	J/molxK	529.81	Joback Method
cpg	329.60	J/molxK	570.28	Joback Method
cpg	347.53	J/molxK	610.75	Joback Method
cpg	364.20	J/molxK	651.22	Joback Method
cpg	379.76	J/molxK	691.69	Joback Method
cpg	394.43	J/molxK	732.16	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	326.00 ± 2.00	K	1.00	NIST Webbook

## Sources

McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C176807&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C176807&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
Crippen Method:	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
Joback Method:	<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>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>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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