

# Spiro[4.4]nonane, 1-methylene-

<b>Other names:</b>	1-Methylene-spiro[4.4]nonane
<b>Inchi:</b>	InChI=1S/C10H16/c1-9-5-4-8-10(9)6-2-3-7-10/h1-8H2
<b>InchiKey:</b>	RXAJSOPMIMROMM-UHFFFAOYSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	C=C1CCCC12CCCC2
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	19144-06-0

## Physical Properties

Property code	Value	Unit	Source
gf	173.82	kJ/mol	Joback Method
hf	-2.79	kJ/mol	Joback Method
hfus	3.10	kJ/mol	Joback Method
hvap	37.51	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.287		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
ripol	1336.00		NIST Webbook
ripol	1336.00		NIST Webbook
tb	458.56	K	Joback Method
tc	684.06	K	Joback Method
tf	269.60	K	Joback Method
vc	0.469	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.60	J/molxK	458.56	Joback Method
cpg	291.21	J/molxK	496.14	Joback Method
cpg	309.26	J/molxK	533.73	Joback Method
cpg	325.92	J/molxK	571.31	Joback Method
cpg	341.34	J/molxK	608.90	Joback Method
cpg	355.69	J/molxK	646.48	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19144060&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19144060&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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>ripol:</b>	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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