

# Spiro[2.5]octane

<b>Inchi:</b>	InChI=1S/C8H14/c1-2-4-8(5-3-1)6-7-8/h1-7H2
<b>InchiKey:</b>	FOEYMRPOKBCNCR-UHFFFAOYSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	C1CCC2(CC1)CC2
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	185-65-9

## Physical Properties

Property code	Value	Unit	Source
gf	116.00	kJ/mol	Joback Method
hf	-39.59	kJ/mol	Joback Method
hfus	1.18	kJ/mol	Joback Method
hvap	32.73	kJ/mol	Joback Method
ie	9.46	eV	NIST Webbook
log10ws	-2.72		Crippen Method
logp	2.731		Crippen Method
mcvol	101.860	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
tb	398.70 ± 1.50	K	NIST Webbook
tb	398.90 ± 2.00	K	NIST Webbook
tc	629.71	K	Joback Method
tf	187.00 ± 1.00	K	NIST Webbook
vc	0.381	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.60	J/mol×K	409.37	Joback Method
cpg	218.47	J/mol×K	446.09	Joback Method
cpg	235.70	J/mol×K	482.82	Joback Method
cpg	251.43	J/mol×K	519.54	Joback Method
cpg	265.84	J/mol×K	556.26	Joback Method
cpg	279.09	J/mol×K	592.98	Joback Method
cpg	291.34	J/mol×K	629.71	Joback Method

# Sources

<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=C185659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C185659&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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