

# Spiro[cyclopropane-1,3'-[1,2]methanodicycloprop

<b>Inchi:</b>	InChI=1S/C11H12/c1-2-11(1)9-5-3-4-7(9)8(4)10(11)6(3)5/h3-10H,1-2H2
<b>InchiKey:</b>	XRJMCRAIKHHJSF-UHFFFAOYSA-N
<b>Formula:</b>	C11H12
<b>SMILES:</b>	C1CC12C1C3C4C5C1C5C2C43
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	65915-88-0

## Physical Properties

Property code	Value	Unit	Source
gf	462.32	kJ/mol	Joback Method
hf	163.77	kJ/mol	Joback Method
hfus	24.67	kJ/mol	Joback Method
hvap	36.28	kJ/mol	Joback Method
ie	9.05	eV	NIST Webbook
log10ws	-1.62		Crippen Method
logp	1.764		Crippen Method
mcvol	100.690	ml/mol	McGowan Method
pc	3368.44	kPa	Joback Method
tb	447.86	K	Joback Method
tc	652.19	K	Joback Method
tf	357.19	K	Joback Method
vc	0.445	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.89	J/molxK	447.86	Joback Method
cpg	298.19	J/molxK	481.91	Joback Method
cpg	315.31	J/molxK	515.97	Joback Method
cpg	330.51	J/molxK	550.02	Joback Method
cpg	344.07	J/molxK	584.08	Joback Method
cpg	356.26	J/molxK	618.13	Joback Method
cpg	367.34	J/molxK	652.19	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=C65915880&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C65915880&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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