

# Tetracyclo[3.3.2.02,4.06,8]dec-9-ene (1 «alpha»,4 «alpha»,6 «alpha»,8 «alpha»)-

Inchi:	InChI=1S/C14H20/c1-11-7-12(11,2)10-6-5-9(11)13(3)8-14(10,13)4/h5-6,9-10H,7-8H2,1-4
InchiKey:	XHJHTSXNRRUUCM-RGPJTXMSSA-N
Formula:	C10H12
SMILES:	CC12CC1(C)C1C=CC2C2(C)CC12C
Mol. weight [g/mol]:	132.20
CAS:	27367-72-2

## Physical Properties

Property code	Value	Unit	Source
gf	326.78	kJ/mol	Joback Method
hf	49.29	kJ/mol	Joback Method
hfus	6.93	kJ/mol	Joback Method
hvap	41.14	kJ/mol	Joback Method
ie	9.00	eV	NIST Webbook
ie	8.60	eV	NIST Webbook
log10ws	-3.67		Crippen Method
logp	3.635		Crippen Method
mcvol	160.380	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
tb	528.92	K	Joback Method
tc	760.65	K	Joback Method
tf	414.22	K	Joback Method
vc	0.639	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.03	J/molxK	528.92	Joback Method
cpg	453.07	J/molxK	567.54	Joback Method
cpg	470.92	J/molxK	606.16	Joback Method
cpg	487.18	J/molxK	644.78	Joback Method
cpg	502.46	J/molxK	683.41	Joback Method
cpg	517.36	J/molxK	722.03	Joback Method
cpg	532.50	J/molxK	760.65	Joback Method

# Sources

<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=C27367722&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C27367722&amp;Units=SI</a>
<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>

# 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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