

# 2-Methyl-5-methylene-2-heptene, (Z)

<b>Inchi:</b>	InChI=1S/C9H16/c1-5-9(4)7-6-8(2)3/h6H,4-5,7H2,1-3H3
<b>InchiKey:</b>	OPWITBJRLIMAOK-UHFFFAOYSA-N
<b>Formula:</b>	C9H16
<b>SMILES:</b>	C=C(CC)CC=C(C)C
<b>Mol. weight [g/mol]:</b>	124.22

## Physical Properties

Property code	Value	Unit	Source
gf	175.86	kJ/mol	Joback Method
hf	-6.02	kJ/mol	Joback Method
hfus	15.37	kJ/mol	Joback Method
hvap	35.08	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	3.309		Crippen Method
mcvol	129.070	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
ripol	947.00		NIST Webbook
tb	405.92	K	Joback Method
tc	587.50	K	Joback Method
tf	156.43	K	Joback Method
vc	0.502	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.60	J/mol×K	405.92	Joback Method
cpg	256.52	J/mol×K	436.18	Joback Method
cpg	269.78	J/mol×K	466.45	Joback Method
cpg	282.41	J/mol×K	496.71	Joback Method
cpg	294.43	J/mol×K	526.98	Joback Method
cpg	305.86	J/mol×K	557.24	Joback Method
cpg	316.74	J/mol×K	587.50	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=R241544&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R241544&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>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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