

# 2-METHYL-2,3-PENTADIENE

<b>Inchi:</b>	InChI=1S/C6H10/c1-4-5-6(2)3/h4H,1-3H3
<b>InchiKey:</b>	JWMDOGMKTRMFDS-UHFFFAOYSA-N
<b>Formula:</b>	C6H10
<b>SMILES:</b>	CC=C=C(C)C
<b>Mol. weight [g/mol]:</b>	82.15

## Physical Properties

Property code	Value	Unit	Source
gf	199.59	kJ/mol	Joback Method
hf	103.04	kJ/mol	Joback Method
hfus	12.32	kJ/mol	Joback Method
hvap	29.42	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	2.128		Crippen Method
mcvol	86.800	ml/mol	McGowan Method
pc	3695.46	kPa	Joback Method
tb	343.99	K	Joback Method
tc	532.30	K	Joback Method
tf	144.85	K	Joback Method
vc	0.333	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	138.60	J/molxK	343.99	Joback Method
cpg	147.81	J/molxK	375.37	Joback Method
cpg	156.67	J/molxK	406.76	Joback Method
cpg	165.19	J/molxK	438.14	Joback Method
cpg	173.36	J/molxK	469.53	Joback Method
cpg	181.21	J/molxK	500.91	Joback Method
cpg	188.74	J/molxK	532.30	Joback Method

# Sources

<b>KDB:</b>	<a href="https://www.chemic.org/files/research/kdb/mol/mol385.mol">https://www.chemic.org/files/research/kdb/mol/mol385.mol</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>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>

# 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>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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