

# (Z)-3,5-Hexadien-1-yne

<b>Inchi:</b>	InChI=1S/C6H6/c1-3-5-6-4-2/h1,4-6H,2H2/b6-5-
<b>InchiKey:</b>	OGWJYLKDZYZYBA-WAYWQWQ TSA-N
<b>Formula:</b>	C6H6
<b>SMILES:</b>	C#CC=CC=C
<b>Mol. weight [g/mol]:</b>	78.11
<b>CAS:</b>	5222-76-4

## Physical Properties

Property code	Value	Unit	Source
gf	390.77	kJ/mol	Joback Method
hf	367.38	kJ/mol	Joback Method
hfus	13.19	kJ/mol	Joback Method
hvap	28.10	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.362		Crippen Method
mcvol	78.200	ml/mol	McGowan Method
pc	4151.61	kPa	Joback Method
tb	327.64	K	Joback Method
tc	516.95	K	Joback Method
tf	197.51	K	Joback Method
vc	0.294	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	112.82	J/mol×K	327.64	Joback Method
cpg	120.78	J/mol×K	359.19	Joback Method
cpg	128.24	J/mol×K	390.74	Joback Method
cpg	135.23	J/mol×K	422.30	Joback Method
cpg	141.78	J/mol×K	453.85	Joback Method
cpg	147.90	J/mol×K	485.40	Joback Method
cpg	153.64	J/mol×K	516.95	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=C5222764&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5222764&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>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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