

# 4-Decen-6-yne, (Z)-

<b>Other names:</b>	(4Z)-4-Decen-6-yne (Z)-4-decen-6-yne
<b>Inchi:</b>	InChI=1S/C10H16/c1-3-5-7-9-10-8-6-4-2/h7,9H,3-6H2,1-2H3/b9-7-
<b>InchiKey:</b>	HAMAIVSPUXRZEN-CLFYSBASSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	CCCC#CC=CCCC
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	13343-76-5

## Physical Properties

Property code	Value	Unit	Source
gf	316.34	kJ/mol	Joback Method
hf	139.79	kJ/mol	Joback Method
hfus	24.98	kJ/mol	Joback Method
hvap	39.96	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.146		Crippen Method
mcvol	138.860	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
rinsol	1235.00		NIST Webbook
tb	441.36	K	Joback Method
tc	634.98	K	Joback Method
tf	303.48	K	Joback Method
vc	0.537	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.70	J/molxK	441.36	Joback Method
cpg	286.90	J/molxK	473.63	Joback Method
cpg	300.43	J/molxK	505.90	Joback Method
cpg	313.31	J/molxK	538.17	Joback Method
cpg	325.59	J/molxK	570.44	Joback Method
cpg	337.27	J/molxK	602.71	Joback Method

## Sources

<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=C13343765&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13343765&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>rinpol:</b>	Non-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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