

# Benzene, 1-hexenyl-, (E)

<b>Inchi:</b>	InChI=1S/C12H16/c1-2-3-4-6-9-12-10-7-5-8-11-12/h5-11H,2-4H2,1H3/b9-6+
<b>InchiKey:</b>	KETWBQOXTBGBBN-RMKNXTFCSA-N
<b>Formula:</b>	C12H16
<b>SMILES:</b>	CCCCC=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	160.26
<b>CAS:</b>	6111-82-6

## Physical Properties

Property code	Value	Unit	Source
gf	242.79	kJ/mol	Joback Method
hf	62.74	kJ/mol	Joback Method
hfus	21.08	kJ/mol	Joback Method
hvap	44.54	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.890		Crippen Method
mvol	151.880	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
rinpol	1308.00		NIST Webbook
rinpol	1308.00		NIST Webbook
tb	504.80	K	Joback Method
tc	713.49	K	Joback Method
tf	246.34	K	Joback Method
vc	0.580	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.28	J/mol×K	504.80	Joback Method
cpg	344.81	J/mol×K	539.58	Joback Method
cpg	360.34	J/mol×K	574.36	Joback Method
cpg	374.92	J/mol×K	609.14	Joback Method
cpg	388.61	J/mol×K	643.93	Joback Method
cpg	401.45	J/mol×K	678.71	Joback Method
cpg	413.50	J/mol×K	713.49	Joback Method

dvisc	0.0035637	Paxs	246.34	Joback Method
dvisc	0.0014839	Paxs	289.42	Joback Method
dvisc	0.0007754	Paxs	332.49	Joback Method
dvisc	0.0004702	Paxs	375.57	Joback Method
dvisc	0.0003160	Paxs	418.65	Joback Method
dvisc	0.0002288	Paxs	461.72	Joback Method
dvisc	0.0001750	Paxs	504.80	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=C6111826&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6111826&amp;Units=SI</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>dvisc:</b>	Dynamic viscosity
<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>mvol:</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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