

# 1,4-Hexadiene, 3-ethyl-

<b>Other names:</b>	3-Ethyl-1,4-hexadiene
<b>Inchi:</b>	InChI=1S/C8H14/c1-4-7-8(5-2)6-3/h4-5,7-8H,2,6H2,1,3H3/b7-4+
<b>InchiKey:</b>	AGZNH DUBGPTFIN-QPJXVBHSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	C=CC(C=CC)CC
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	2080-89-9

## Physical Properties

Property code	Value	Unit	Source
gf	182.10	kJ/mol	Joback Method
hf	28.92	kJ/mol	Joback Method
hfus	11.88	kJ/mol	Joback Method
hvap	32.30	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.775		Crippen Method
mcvol	114.980	ml/mol	McGowan Method
pc	2817.33	kPa	Joback Method
rinpol	903.00		NIST Webbook
rinpol	903.00		NIST Webbook
tb	382.84	K	Joback Method
tc	562.47	K	Joback Method
tf	158.08	K	Joback Method
vc	0.439	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.36	J/mol×K	382.84	Joback Method
cpg	261.23	J/mol×K	532.53	Joback Method
cpg	250.77	J/mol×K	502.59	Joback Method
cpg	239.78	J/mol×K	472.65	Joback Method
cpg	228.23	J/mol×K	442.72	Joback Method
cpg	216.10	J/mol×K	412.78	Joback Method

cpg	271.18	J/mol×K	562.47	Joback Method
dvisc	0.0001898	Paxs	382.84	Joback Method
dvisc	0.0002528	Paxs	345.38	Joback Method
dvisc	0.0003612	Paxs	307.92	Joback Method
dvisc	0.0005696	Paxs	270.46	Joback Method
dvisc	0.0010398	Paxs	233.00	Joback Method
dvisc	0.0023908	Paxs	195.54	Joback Method
dvisc	0.0081563	Paxs	158.08	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=C2080899&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2080899&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>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>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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