

# (Z)-3-Ethyl-1,5-octadiene

<b>Inchi:</b>	InChI=1S/C10H18/c1-4-7-8-9-10(5-2)6-3/h5,7-8,10H,2,4,6,9H2,1,3H3/b8-7-
<b>InchiKey:</b>	DXYBMKOHVHUXNV-FPLPWBNLSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	C=CC(CC)CC=CCC
<b>Mol. weight [g/mol]:</b>	138.25

## Physical Properties

Property code	Value	Unit	Source
gf	198.94	kJ/mol	Joback Method
hf	-12.36	kJ/mol	Joback Method
hfus	17.06	kJ/mol	Joback Method
hvap	36.75	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.555		Crippen Method
mvol	143.160	ml/mol	McGowan Method
pc	2320.31	kPa	Joback Method
rinpol	888.00		NIST Webbook
rinpol	888.00		NIST Webbook
tb	428.60	K	Joback Method
tc	606.13	K	Joback Method
tf	180.62	K	Joback Method
vc	0.550	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.09	J/molxK	428.60	Joback Method
cpg	298.96	J/molxK	458.19	Joback Method
cpg	313.14	J/molxK	487.78	Joback Method
cpg	326.65	J/molxK	517.36	Joback Method
cpg	339.54	J/molxK	546.95	Joback Method
cpg	351.81	J/molxK	576.54	Joback Method
cpg	363.50	J/molxK	606.13	Joback Method
dvisc	0.0087656	Paxs	180.62	Joback Method

dvisc	0.0025414	Paxs	221.95	Joback Method
dvisc	0.0010869	Paxs	263.28	Joback Method
dvisc	0.0005853	Paxs	304.61	Joback Method
dvisc	0.0003655	Paxs	345.94	Joback Method
dvisc	0.0002523	Paxs	387.27	Joback Method
dvisc	0.0001871	Paxs	428.60	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=R417791&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R417791&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>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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