

# (E,E)-1,3-(Z)-5-Octatriene

<b>Other names:</b>	1,(E)-3-(Z)-5-Octatriene
<b>Inchi:</b>	InChI=1S/C8H12/c1-3-5-7-8-6-4-2/h3,5-8H,1,4H2,2H3/b7-5-,8-6-
<b>InchiKey:</b>	HOXGZVUCAYFWGR-SFECMWDFSA-N
<b>Formula:</b>	C8H12
<b>SMILES:</b>	C=CC=CC=CCC
<b>Mol. weight [g/mol]:</b>	108.18

## Physical Properties

Property code	Value	Unit	Source
gf	264.76	kJ/mol	Joback Method
hf	151.42	kJ/mol	Joback Method
hfus	15.60	kJ/mol	Joback Method
hvap	32.65	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.695		Crippen Method
mcvol	110.680	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
ripol	1096.00		NIST Webbook
tb	387.44	K	Joback Method
tc	572.16	K	Joback Method
tf	168.00	K	Joback Method
vc	0.424	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.00	J/molxK	387.44	Joback Method
cpg	201.15	J/molxK	418.23	Joback Method
cpg	212.62	J/molxK	449.01	Joback Method
cpg	223.45	J/molxK	479.80	Joback Method
cpg	233.67	J/molxK	510.59	Joback Method
cpg	243.32	J/molxK	541.37	Joback Method
cpg	252.44	J/molxK	572.16	Joback Method
dvisc	0.0039890	Paxs	168.00	Joback Method

dvisc	0.0014499	Paxs	204.57	Joback Method
dvisc	0.0007163	Paxs	241.15	Joback Method
dvisc	0.0004262	Paxs	277.72	Joback Method
dvisc	0.0002861	Paxs	314.29	Joback Method
dvisc	0.0002087	Paxs	350.87	Joback Method
dvisc	0.0001616	Paxs	387.44	Joback Method

## Sources

<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>
<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=R332353&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R332353&amp;Units=SI</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>ripol:</b>	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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