

# (E,Z)-2,4,6-octatriene

<b>Inchi:</b>	InChI=1S/C8H12/c1-3-5-7-8-6-4-2/h3-8H,1-2H3/b5-3-,6-4+,8-7+
<b>InchiKey:</b>	CGMDPTNRM YIZTM-USKFMLJNSA-N
<b>Formula:</b>	C8H12
<b>SMILES:</b>	CC=CC=CC=CC
<b>Mol. weight [g/mol]:</b>	108.18

## Physical Properties

Property code	Value	Unit	Source
gf	257.14	kJ/mol	Joback Method
hf	143.21	kJ/mol	Joback Method
hfus	17.08	kJ/mol	Joback Method
hvap	33.28	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.695		Crippen Method
mvol	110.680	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
ripol	1151.00		NIST Webbook
ripol	1151.00		NIST Webbook
tb	394.92	K	Joback Method
tc	585.28	K	Joback Method
tf	164.68	K	Joback Method
vc	0.423	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	188.98	J/mol×K	394.92	Joback Method
cpg	201.48	J/mol×K	426.65	Joback Method
cpg	213.22	J/mol×K	458.37	Joback Method
cpg	224.26	J/mol×K	490.10	Joback Method
cpg	234.63	J/mol×K	521.83	Joback Method
cpg	244.38	J/mol×K	553.55	Joback Method
cpg	253.55	J/mol×K	585.28	Joback Method
dvisc	0.0046000	Paxs	164.68	Joback Method

dvisc	0.0014728	Paxs	203.05	Joback Method
dvisc	0.0006773	Paxs	241.43	Joback Method
dvisc	0.0003854	Paxs	279.80	Joback Method
dvisc	0.0002513	Paxs	318.17	Joback Method
dvisc	0.0001796	Paxs	356.55	Joback Method
dvisc	0.0001371	Paxs	394.92	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R301181&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R301181&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>
<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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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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