

1,3,6-Octatriene, E,Z

Other names:	(E,Z)-1,3,6-octatriene
Inchi:	InChI=1S/C8H12/c1-3-5-7-8-6-4-2/h3-7H,1,8H2,2H3/b6-4-,7-5+
InchiKey:	PKHBEGZTQNOZLP-XGXWUAJZSA-N
Formula:	C8H12
SMILES:	C=CC=CCC=CC
Mol. weight [g/mol]:	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
rinpol	816.00		NIST Webbook
rinpol	816.00		NIST Webbook
ripol	1100.00		NIST Webbook
ripol	1100.00		NIST Webbook
tb	387.44	K	Joback Method
tc	572.16	K	Joback Method
tf	168.00	K	Joback Method
vc	0.424	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.00	J/mol×K	387.44	Joback Method
cpg	201.15	J/mol×K	418.23	Joback Method
cpg	212.62	J/mol×K	449.01	Joback Method
cpg	223.45	J/mol×K	479.80	Joback Method
cpg	233.67	J/mol×K	510.59	Joback Method

cpg	243.32	J/mol×K	541.37	Joback Method
cpg	252.44	J/mol×K	572.16	Joback Method
dvisc	0.0039890	Pa×s	168.00	Joback Method
dvisc	0.0014499	Pa×s	204.57	Joback Method
dvisc	0.0007163	Pa×s	241.15	Joback Method
dvisc	0.0004262	Pa×s	277.72	Joback Method
dvisc	0.0002861	Pa×s	314.29	Joback Method
dvisc	0.0002087	Pa×s	350.87	Joback Method
dvisc	0.0001616	Pa×s	387.44	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R294058&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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