trans-2,cis-6-octadiene

Other names:	2,6-Octadiene, (E,Z)
	2,6-Octadiene, Z,E
	cis,trans-2,6-Octadiene
Inchi:	InChI=1S/C8H14/c1-3-5-7-8-6-4-2/h3-6H,7-8H2,1-2H3/b5-3-,6-4+
InchiKey:	LAGGTOBQMQHXON-CIIODKQPSA-N
Formula:	C8H14
SMILES:	CC=CCCC=CC
Mol. weight [g/mol]:	110.20

Physical Properties

Property code	Value	Unit	Source
gf	176.92	kJ/mol	Joback Method
hf	25.99	kJ/mol	Joback Method
hfus	16.88	kJ/mol	Joback Method
hvap	33.32	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.919		Crippen Method
mcvol	114.980	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	800.00		NIST Webbook
rinpol	798.00		NIST Webbook
rinpol	798.10		NIST Webbook
rinpol	801.60		NIST Webbook
rinpol	798.00		NIST Webbook
tb	390.76	K	Joback Method
tc	571.58	K	Joback Method
tf	169.76	K	Joback Method
vc	0.444	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.62	J/mol×K	390.76	Joback Method
cpg	261.13	J/mol×K	541.44	Joback Method

cpg	250.79	J/mol×K	511.30	Joback Method
cpg	239.90	J/mol×K	481.17	Joback Method
cpg	228.43	J/mol×K	451.03	Joback Method
cpg	216.35	J/mol×K	420.90	Joback Method
cpg	270.94	J/mol×K	571.58	Joback Method
dvisc	0.0001661	Pa×s	390.76	Joback Method
dvisc	0.0002177	Pa×s	353.93	Joback Method
dvisc	0.0003039	Pa×s	317.09	Joback Method
dvisc	0.0004630	Pa×s	280.26	Joback Method
dvisc	0.0008014	Pa×s	243.43	Joback Method
dvisc	0.0016869	Pa×s	206.59	Joback Method
dvisc	0.0049045	Pa×s	169.76	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R147516&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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