

7-octenyl-cyclopropane

Other names:	Cyclopropane, 7-octenyl
Inchi:	InChI=1S/C11H20/c1-2-3-4-5-6-7-8-11-9-10-11/h2,11H,1,3-10H2
InchiKey:	IVDLYBOKARRYHC-UHFFFAOYSA-N
Formula:	C11H20
SMILES:	C=CCCCCCCC1CC1
Mol. weight [g/mol]:	152.28

Physical Properties

Property code	Value	Unit	Source
gf	190.33	kJ/mol	Joback Method
hf	-72.14	kJ/mol	Joback Method
hfus	21.10	kJ/mol	Joback Method
hvap	39.32	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcpvol	150.690	ml/mol	McGowan Method
pc	2263.26	kPa	Joback Method
rinpol	1197.00		NIST Webbook
rinpol	1097.00		NIST Webbook
rinpol	1197.00		NIST Webbook
tb	454.50	K	Joback Method
tc	632.11	K	Joback Method
tf	229.91	K	Joback Method
vc	0.590	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.11	J/molxK	454.50	Joback Method
cpg	345.94	J/molxK	484.10	Joback Method
cpg	361.93	J/molxK	513.70	Joback Method
cpg	377.14	J/molxK	543.30	Joback Method
cpg	391.58	J/molxK	572.90	Joback Method
cpg	405.30	J/molxK	602.51	Joback Method

cpg	418.34	J/molxK	632.11	Joback Method
dvisc	0.0020954	Paxs	229.91	Joback Method
dvisc	0.0013149	Paxs	267.34	Joback Method
dvisc	0.0009252	Paxs	304.77	Joback Method
dvisc	0.0007030	Paxs	342.20	Joback Method
dvisc	0.0005639	Paxs	379.64	Joback Method
dvisc	0.0004706	Paxs	417.07	Joback Method
dvisc	0.0004046	Paxs	454.50	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R2032&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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