

Cyclooctane, ethenyl-

Other names:	Vinylcyclooctane
Inchi:	InChI=1S/C10H18/c1-2-10-8-6-4-3-5-7-9-10/h2,10H,1,3-9H2
InchiKey:	UPHVHMSLLBDZEV-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	C=CC1CCCCCCC1
Mol. weight [g/mol]:	138.25
CAS:	61142-41-4

Physical Properties

Property code	Value	Unit	Source
gf	121.41	kJ/mol	Joback Method
hf	-82.30	kJ/mol	Joback Method
hfus	8.01	kJ/mol	Joback Method
hvap	37.96	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.533		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
tb	452.97	K	Joback Method
tc	670.71	K	Joback Method
tf	201.04	K	Joback Method
vc	0.493	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.51	J/mol×K	452.97	Joback Method
cpg	303.78	J/mol×K	489.26	Joback Method
cpg	323.94	J/mol×K	525.55	Joback Method
cpg	343.01	J/mol×K	561.84	Joback Method
cpg	361.01	J/mol×K	598.13	Joback Method
cpg	377.97	J/mol×K	634.42	Joback Method
cpg	393.91	J/mol×K	670.71	Joback Method
dvisc	0.0236496	Pa×s	201.04	Joback Method

dvisc	0.0053112	Pa×s	243.03	Joback Method
dvisc	0.0018522	Pa×s	285.02	Joback Method
dvisc	0.0008466	Pa×s	327.00	Joback Method
dvisc	0.0004624	Pa×s	368.99	Joback Method
dvisc	0.0002858	Pa×s	410.98	Joback Method
dvisc	0.0001931	Pa×s	452.97	Joback Method

Sources

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=C61142414&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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