

Bicyclo[4.2.0]oct-1-ene, 7-endo-ethenyl-

Other names:	7-Endo-ethenyl-bicyclo[4,2,0]-oct-1-ene
Inchi:	InChI=1S/C10H14/c1-2-8-7-9-5-3-4-6-10(8)9/h2,5,8,10H,1,3-4,6-7H2
InchiKey:	UYJJGGIDBYUFAQ-UHFFFAOYSA-N
Formula:	C10H14
SMILES:	C=CC1CC2=CCCCC21
Mol. weight [g/mol]:	134.22

Physical Properties

Property code	Value	Unit	Source
gf	238.79	kJ/mol	Joback Method
hf	55.29	kJ/mol	Joback Method
hfus	13.28	kJ/mol	Joback Method
hvap	38.31	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.919		Crippen Method
mvol	121.440	ml/mol	McGowan Method
pc	3069.34	kPa	Joback Method
rinpol	1029.00		NIST Webbook
rinpol	1029.00		NIST Webbook
tb	451.04	K	Joback Method
tc	664.40	K	Joback Method
tf	242.82	K	Joback Method
vc	0.461	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.06	J/mol×K	451.04	Joback Method
cpg	273.88	J/mol×K	486.60	Joback Method
cpg	290.54	J/mol×K	522.16	Joback Method
cpg	306.12	J/mol×K	557.72	Joback Method
cpg	320.67	J/mol×K	593.28	Joback Method
cpg	334.27	J/mol×K	628.84	Joback Method
cpg	346.98	J/mol×K	664.40	Joback Method

dvisc	0.0011450	Paxs	242.82	Joback Method
dvisc	0.0009152	Paxs	277.52	Joback Method
dvisc	0.0007689	Paxs	312.23	Joback Method
dvisc	0.0006689	Paxs	346.93	Joback Method
dvisc	0.0005968	Paxs	381.63	Joback Method
dvisc	0.0005427	Paxs	416.34	Joback Method
dvisc	0.0005008	Paxs	451.04	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U142183&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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