Bicyclo[2.2.1]hept-2-ene, 5-methylene-

Other names:	5-Methylene-2-norbornene
	2-Methylene-5-norbornene
	2-Norbornene, 5-methylene-
	5-Methylene-2-norbornylene
	5-Methylenebicyclo(2.2.1)hept-2-ene
	5-Methylenenorbornene
	5-Methylenebicyclo[2.2.1]-2-heptene
Inchi:	InChI=1S/C8H10/c1-6-4-7-2-3-8(6)5-7/h2-3,7-8H,1,4-5H2
InchiKey:	WTQBISBWKRKLIJ-UHFFFAOYSA-N
Formula:	C8H10
SMILES:	C=C1CC2C=CC1C2
Mol. weight [g/mol]:	106.17
CAS:	694-91-7

Physical Properties

Property code	Value	Unit	Source
gf	208.92	kJ/mol	Joback Method
hf	73.01	kJ/mol	Joback Method
hfus	10.71	kJ/mol	Joback Method
hvap	33.85	kJ/mol	Joback Method
ie	9.01	eV	NIST Webbook
ie	8.93	eV	NIST Webbook
log10ws	-2.18		Crippen Method
logp	2.139		Crippen Method
mcvol	93.260	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
rinpol	800.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	798.00		NIST Webbook
tb	398.51	K	Joback Method
tc	603.88	K	Joback Method
tf	226.72	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	174.97	J/mol×K	398.51	Joback Method
cpg	189.30	J/mol×K	432.74	Joback Method
cpg	202.67	J/mol×K	466.97	Joback Method
cpg	215.16	J/mol×K	501.20	Joback Method
cpg	226.80	J/mol×K	535.43	Joback Method
cpg	237.67	J/mol×K	569.66	Joback Method
cpg	247.80	J/mol×K	603.88	Joback Method
dvisc	0.0004647	Pa×s	226.72	Joback Method
dvisc	0.0004653	Pa×s	255.35	Joback Method
dvisc	0.0004658	Pa×s	283.98	Joback Method
dvisc	0.0004662	Pa×s	312.62	Joback Method
dvisc	0.0004666	Pa×s	341.25	Joback Method
dvisc	0.0004669	Pa×s	369.88	Joback Method
dvisc	0.0004671	Pa×s	398.51	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C694917&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

ie:	Ionization energy
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