1-Methylnorbornadiene

Inchi: InChI=1S/C8H10/c1-8-4-2-7(6-8)3-5-8/h2-5,7H,6H2,1H3
InchiKey: YLGJWZZQXZWMQQ-UHFFFAOYSA-N
Formula: C8H10
SMILES: CC12C=CC(C=C1)C2
Mol. weight [g/mol]: 106.17

Physical Properties

Property code	Value	Unit	Source
gf	180.31	kJ/mol	Joback Method
hf	61.79	kJ/mol	Joback Method
hfus	6.79	kJ/mol	Joback Method
hvap	32.83	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	2.139		Crippen Method
mcvol	93.260	ml/mol	McGowan Method
pc	3985.56	kPa	Joback Method
rinpol	716.00		NIST Webbook
tb	398.75	K	Joback Method
tc	614.06	K	Joback Method
tf	237.70	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.15	J/mol×K	398.75	Joback Method
cpg	190.71	J/mol×K	434.64	Joback Method
cpg	204.76	J/mol×K	470.52	Joback Method
cpg	217.46	J/mol×K	506.41	Joback Method
cpg	228.98	J/mol×K	542.29	Joback Method
cpg	239.45	J/mol×K	578.18	Joback Method
cpg	249.04	J/mol×K	614.06	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=R128139&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
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