2-Methylnorbornadiene

Inchi: InChI=1S/C8H10/c1-6-4-7-2-3-8(6)5-7/h2-4,7-8H,5H2,1H3
InchiKey: OGJJVYFQXFXJKU-UHFFFAOYSA-N
Formula: C8H10
SMILES: CC1=CC2C=CC1C2
Mol. weight [g/mol]: 106.17

Physical Properties

Property code	Value	Unit	Source
gf	176.17	kJ/mol	Joback Method
hf	35.08	kJ/mol	Joback Method
hfus	12.70	kJ/mol	Joback Method
hvap	34.65	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	2.139		Crippen Method
mcvol	93.260	ml/mol	McGowan Method
pc	3699.95	kPa	Joback Method
rinpol	756.00		NIST Webbook
tb	403.49	K	Joback Method
tc	610.70	K	Joback Method
tf	226.32	K	Joback Method
vc	0.361	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	176.21	J/mol×K	403.49	Joback Method
cpg	190.38	J/mol×K	438.02	Joback Method
cpg	203.58	J/mol×K	472.56	Joback Method
cpg	215.88	J/mol×K	507.09	Joback Method
cpg	227.34	J/mol×K	541.63	Joback Method
cpg	238.01	J/mol×K	576.16	Joback Method
cpg	247.96	J/mol×K	610.70	Joback Method
dvisc	0.0004375	Pa×s	226.32	Joback Method
dvisc	0.0004369	Pa×s	255.85	Joback Method

dvisc	0.0004365	Pa×s	285.38	Joback Method
dvisc	0.0004361	Pa×s	314.90	Joback Method
dvisc	0.0004358	Pa×s	344.43	Joback Method
dvisc	0.0004355	Pa×s	373.96	Joback Method
dvisc	0.0004353	Pa×s	403.49	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=R128144&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
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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