

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	m ³ /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	Paxs	226.32	Joback Method
dvisc	0.0004369	Paxs	255.85	Joback Method

dvisc	0.0004365	Paxs	285.38	Joback Method
dvisc	0.0004361	Paxs	314.90	Joback Method
dvisc	0.0004358	Paxs	344.43	Joback Method
dvisc	0.0004355	Paxs	373.96	Joback Method
dvisc	0.0004353	Paxs	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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