

2-Methyl-3-methylene-bicyclo[2.2.1]heptane, trans

Inchi:	InChI=1S/C9H14/c1-6-7(2)9-4-3-8(6)5-9/h7-9H,1,3-5H2,2H3/t7-,8?,9?/m1/s1
InchiKey:	ZKASMXOELCEADR-AFPNSQJFSA-N
Formula:	C9H14
SMILES:	C=C1C2CCC(C2)C1C
Mol. weight [g/mol]:	122.21

Physical Properties

Property code	Value	Unit	Source
gf	179.67	kJ/mol	Joback Method
hf	-25.75	kJ/mol	Joback Method
hfus	13.15	kJ/mol	Joback Method
hvap	35.48	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.609		Crippen Method
mvol	111.650	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
rinpol	1005.00		NIST Webbook
ripol	1075.00		NIST Webbook
tb	417.56	K	Joback Method
tc	618.35	K	Joback Method
tf	232.99	K	Joback Method
vc	0.428	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.77	J/molxK	417.56	Joback Method
cpg	245.70	J/molxK	451.03	Joback Method
cpg	261.67	J/molxK	484.49	Joback Method
cpg	276.71	J/molxK	517.96	Joback Method
cpg	290.89	J/molxK	551.42	Joback Method
cpg	304.23	J/molxK	584.89	Joback Method
cpg	316.80	J/molxK	618.35	Joback Method
dvisc	0.0004793	Paxs	232.99	Joback Method

dvisc	0.0004941	Paxs	263.75	Joback Method
dvisc	0.0005061	Paxs	294.51	Joback Method
dvisc	0.0005160	Paxs	325.27	Joback Method
dvisc	0.0005244	Paxs	356.04	Joback Method
dvisc	0.0005315	Paxs	386.80	Joback Method
dvisc	0.0005377	Paxs	417.56	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R246638&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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