2-Methyl-2-bornene

Inchi: InChI=1S/C11H18/c1-8-7-9-5-6-11(8,4)10(9,2)3/h7,9H,5-6H2,1-4H3
InchiKey: ZLCRBFJQCPQSGZ-UHFFFAOYSA-N
Formula: C11H18
SMILES: CC1=CC2CCC1(C)C2(C)C
Mol. weight [g/mol]: 150.26
CAS: 72540-93-3

Physical Properties

Property code	Value	Unit	Source
gf	152.78	kJ/mol	Joback Method
hf	-74.48	kJ/mol	Joback Method
hfus	7.72	kJ/mol	Joback Method
hvap	38.42	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.389		Crippen Method
mcvol	139.830	ml/mol	McGowan Method
pc	2738.28	kPa	Joback Method
rinpol	1021.00		NIST Webbook
tb	468.78	K	Joback Method
tc	684.31	K	Joback Method
tf	302.93	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.93	J/mol×K	468.78	Joback Method
cpg	338.93	J/mol×K	504.70	Joback Method
cpg	356.28	J/mol×K	540.62	Joback Method
cpg	372.24	J/mol×K	576.55	Joback Method
cpg	387.02	J/mol×K	612.47	Joback Method
cpg	400.86	J/mol×K	648.39	Joback Method
cpg	414.00	J/mol×K	684.31	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C72540933&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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