Bicyclo[6.1.0]nonane, 9-(1-methylethylidene)-

Other names: 9-(1-Methylethylidene)-bicyclo[6.1.0]nonane
Inchi: InChI=1S/C12H20/c1-9(2)12-10-7-5-3-4-6-8-11(10)12/h10-11H,3-8H2,1-2H3
InchiKey: QJTJAUTVGXPXTR-UHFFFAOYSA-N
Formula: C12H20
SMILES: CC(C)=C1C2CCCCCCC12
Mol. weight [g/mol]: 164.29
CAS: 56666-90-1

Physical Properties

Property code	Value	Unit	Source
gf	172.27	kJ/mol	Joback Method
hf	-97.65	kJ/mol	Joback Method
hfus	15.82	kJ/mol	Joback Method
hvap	43.52	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.923		Crippen Method
mcvol	153.920	ml/mol	McGowan Method
pc	2497.50	kPa	Joback Method
tb	506.77	K	Joback Method
tc	725.47	K	Joback Method
tf	246.72	K	Joback Method
vc	0.582	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.49	J/mol×K	506.77	Joback Method
cpg	388.15	J/mol×K	543.22	Joback Method
cpg	408.48	J/mol×K	579.67	Joback Method
cpg	427.53	J/mol×K	616.12	Joback Method
cpg	445.38	J/mol×K	652.57	Joback Method
cpg	462.11	J/mol×K	689.02	Joback Method
cpg	477.78	J/mol×K	725.47	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56666901&Units=SI

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