Bicyclo[2.2.1]heptane, 2-(2-methyl-1-propenyl)-

Other names: 2-(2-Methyl-1-propenyl)-bicyclo[2.2.1]heptane
Inchi: InChI=1S/C11H18/c1-8(2)5-11-7-9-3-4-10(11)6-9/h5,9-11H,3-4,6-7H2,1-2H3
InchiKey: DTGWDBPLBYGFAN-UHFFFAOYSA-N
Formula: C11H18
SMILES: CC(C)=CC1CC2CCC1C2
Mol. weight [g/mol]: 150.26
CAS: 61142-27-6

Physical Properties

Property code	Value	Unit	Source
gf	215.10	kJ/mol	Joback Method
hf	-43.84	kJ/mol	Joback Method
hfus	18.38	kJ/mol	Joback Method
hvap	39.81	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.389		Crippen Method
mcvol	139.830	ml/mol	McGowan Method
pc	2589.85	kPa	Joback Method
rinpol	1111.00		NIST Webbook
rinpol	1111.00		NIST Webbook
tb	468.20	K	Joback Method
tc	676.47	K	Joback Method
tf	222.81	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.83	J/mol×K	468.20	Joback Method
cpg	337.07	J/mol×K	502.91	Joback Method
cpg	356.02	J/mol×K	537.62	Joback Method
cpg	373.76	J/mol×K	572.33	Joback Method
cpg	390.38	J/mol×K	607.04	Joback Method
cpg	405.95	J/mol×K	641.75	Joback Method

cpg	420.54	J/mol×K	676.47	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=C61142276&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume