Bicyclo[2.2.1]heptane, 2-cyclopropylidene-1,7,7-trimethyl-

Other names: 2-Cyclopropylidene-1,7,7-trimethylbicyclo[2.2.1]heptane
Inchi: InChI=1S/C13H20/c1-12(2)10-6-7-13(12,3)11(8-10)9-4-5-9/h10H,4-8H2,1-3H3
InchiKey: SOXIHOIHNJNQQY-UHFFFAOYSA-N
Formula: C13H20
SMILES: CC12CCC(CC1=C1CC1)C2(C)C
Mol. weight [g/mol]: 176.30

Physical Properties

Property code	Value	Unit	Source
gf	228.45	kJ/mol	Joback Method
hf	-34.09	kJ/mol	Joback Method
hfus	9.58	kJ/mol	Joback Method
hvap	43.76	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	3.923		Crippen Method
mcvol	157.150	ml/mol	McGowan Method
pc	2616.41	kPa	Joback Method
rinpol	1254.00		NIST Webbook
rinpol	1254.00		NIST Webbook
tb	530.93	K	Joback Method
tc	757.90	K	Joback Method
tf	360.17	K	Joback Method
vc	0.609	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.97	J/mol×K	530.93	Joback Method
cpg	420.89	J/mol×K	568.76	Joback Method
cpg	439.16	J/mol×K	606.59	Joback Method
cpg	456.11	J/mol×K	644.42	Joback Method
cpg	472.03	J/mol×K	682.25	Joback Method
cpg	487.25	J/mol×K	720.07	Joback Method
cpg	502.07	J/mol×K	757.90	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=U159457&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