1,7,7-Trimethyl-2-vinylbicyclo[2.2.1]hept-2-ene

Inchi: InChI=1S/C12H18/c1-5-9-8-10-6-7-12(9,4)11(10,2)3/h5,8,10H,1,6-7H2,2-4H3
InchiKey: DNDLHRMVKMCSOS-UHFFFAOYSA-N
Formula: C12H18
SMILES: C=CC1=CC2CCC1(C)C2(C)C
Mol. weight [g/mol]: 162.27
CAS: 130930-56-2

Physical Properties

Property code	Value	Unit	Source
gf	249.04	kJ/mol	Joback Method
hf	30.31	kJ/mol	Joback Method
hfus	9.03	kJ/mol	Joback Method
hvap	39.98	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.555		Crippen Method
mcvol	149.620	ml/mol	McGowan Method
pc	2589.85	kPa	Joback Method
tb	488.34	K	Joback Method
tc	705.42	K	Joback Method
tf	312.44	K	Joback Method
vc	0.576	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.19	J/mol×K	488.34	Joback Method
cpg	367.08	J/mol×K	524.52	Joback Method
cpg	384.36	J/mol×K	560.70	Joback Method
cpg	400.28	J/mol×K	596.88	Joback Method
cpg	415.08	J/mol×K	633.06	Joback Method
cpg	429.00	J/mol×K	669.24	Joback Method
cpg	442.30	J/mol×K	705.42	Joback Method

Sources

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=C130930562&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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