Tetracyclo[6.1.0.0(2,4).0(5,7)]nonane,3,3,6,6,9,9-he

Inchi: InChI=1S/C15H24/c1-13(2)7-8(13)10-12(15(10,5)6)11-9(7)14(11,3)4/h7-12H,1-6H3
InchiKey: JJDXPPCRRNQMNJ-UHFFFAOYSA-N
Formula: C15H24
SMILES: CC1(C)C2C3C(C4C(C21)C4(C)C)C3(C)C
Mol. weight [g/mol]: 204.35
CAS: 51898-92-1

Physical Properties

Property code	Value	Unit	Source
gf	299.70	kJ/mol	Joback Method
hf	-99.23	kJ/mol	Joback Method
hfus	19.91	kJ/mol	Joback Method
hvap	43.12	kJ/mol	Joback Method
ie	8.50	eV	NIST Webbook
log10ws	-3.51		Crippen Method
logp	3.817		Crippen Method
mcvol	178.770	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
tb	534.12	K	Joback Method
tc	742.45	K	Joback Method
tf	391.63	K	Joback Method
vc	0.717	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.95	J/mol×K	534.12	Joback Method
cpg	523.94	J/mol×K	568.84	Joback Method
cpg	544.16	J/mol×K	603.56	Joback Method
cpg	562.98	J/mol×K	638.29	Joback Method
cpg	580.73	J/mol×K	673.01	Joback Method
cpg	597.79	J/mol×K	707.73	Joback Method
cpg	614.49	J/mol×K	742.45	Joback Method

Sources

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=C51898921&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
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