2-Tetrazene, 1,1,4,4-tetrakis(1-methylethyl)-

Other names: 1,1,4,4-Tetraisopropyl-«DELTA»-2-tetrazene
Inchi: InChI=1S/C12H28N4/c1-9(2)15(10(3)4)13-14-16(11(5)6)12(7)8/h9-12H,1-8H3
InchiKey: ZNDMWJNPHFHXFT-UHFFFAOYSA-N
Formula: C12H28N4
SMILES: CC(C)N(N=NN(C(C)C)C(C)C)C(C)C
Mol. weight [g/mol]: 228.38
CAS: 13304-31-9

Physical Properties

Property code	Value	Unit	Source
hf	-129.85	kJ/mol	Joback Method
hvap	51.51	kJ/mol	Joback Method
ie	6.90	eV	NIST Webbook
log10ws	-3.67		Crippen Method
logp	3.506		Crippen Method
mcvol	215.560	ml/mol	McGowan Method
pc	1474.75	kPa	Joback Method
tb	646.28	K	Joback Method
tc	840.73	K	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=C13304319&Units=SI

Legend

hf: Enthalpy of formation 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