Diazene, bis-(2-methylpropyl)

Other names: Diisobutyl diazene
Inchi: InChI=1S/C8H18N2/c1-7(2)5-9-10-6-8(3)4/h7-8H,5-6H2,1-4H3
InchiKey: JUOJXNAVZADLAJ-UHFFFAOYSA-N
Formula: C8H18N2
SMILES: CC(C)CN=NCC(C)C
Mol. weight [g/mol]: 142.24
CAS: 3896-19-3

Physical Properties

Property code	Value	Unit	Source
hf	-171.79	kJ/mol	Joback Method
hvap	39.30	kJ/mol	Joback Method
ie	8.20	eV	NIST Webbook
log10ws	-1.95		Crippen Method
logp	2.751		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	867.00		NIST Webbook
tb	530.76	K	Joback Method
tc	733.01	K	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	324.00 ± 1.00	K	3.20	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3896193&Units=SI
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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature