1-Propanamine, 2-methyl-N-(2-methylpropyl)-N-nitroso-

Other names: Dipropylamine, 2,2'-dimethyl-N-nitroso-
Diisobutylnitrosamine
N-Nitrosodiisobutylamine
N,N-Diisobutylnitrosamine
Diisobutylamine, N-nitroso-
Dmdpn
N-Nitroso-2,2'-dimethyldi-n-propylamine
Nitrosodiisobutylamine
2,2'-Dimethyldipropylnitrosoamine
Bisisobutyl-N-nitrosoamine
diisobutylnitrosoamine

Inchi: InChI=1S/C8H18N2O/c1-7(2)5-10(9-11)6-8(3)4/h7-8H,5-6H2,1-4H3

InchiKey: XLZCLFRMPCBSDI-UHFFFAOYSA-N

Formula: C8H18N2O

SMILES: CC(C)CN(CC(C)C)N=O

Mol. weight [g/mol]: 158.24

CAS: 997-95-5

Physical Properties

Property code	Value	Unit	Source
chs	-5515.00 ± 3.00	kJ/mol	NIST Webbook
hf	-139.50 ± 5.10	kJ/mol	NIST Webbook
hfs	-206.00 ± 3.00	kJ/mol	NIST Webbook
hsub	66.50 ± 4.20	kJ/mol	NIST Webbook
hvap	43.77	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.282		Crippen Method
mcvol	145.110	ml/mol	McGowan Method
pc	2525.19	kPa	Joback Method
tb	457.40	K	Joback Method
tc	628.71	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=C997955&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation 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