N-Ethyl-N'-nitroguanidine

Other names:	Guanidine, 1-ethyl-3-nitro-
	Guanidine, N-ethyl-N'-nitro-
Inchi:	InChI=1S/C3H8N4O2/c1-2-5-3(4)6-7(8)9/h2H2,1H3,(H3,4,5,6)
InchiKey:	ZNSWVUMAGGGYMN-UHFFFAOYSA-N
Formula:	C3H8N4O2
SMILES:	CCNC(N)=N[N+](=O)[O-]
Mol. weight [g/mol]:	132.12
CAS:	39197-62-1

Physical Properties

Property code	Value	Unit	Source
chs	-2219.00	kJ/mol	NIST Webbook
hf	43.68	kJ/mol	Joback Method
hvap	59.33	kJ/mol	Joback Method
log10ws	-0.93		Crippen Method
logp	-0.898		Crippen Method
mcvol	96.190	ml/mol	McGowan Method
pc	4305.56	kPa	Joback Method
tb	619.14	K	Joback Method
tc	862.66	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=C39197621&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation 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