Nitrogen fluoride, (E)-

Other names:	(E)-Difluorodiazene
	trans-Difluorodiazene
	trans-1,2-Difluorodiazene
	trans-1,2-Difluorodiimide
	(E)-N2F2
	Nitrogen fluoride, trans
	FNNF
	Nitrogen fluoride (N2F2), (E)-
	Difluorodiazene, (E)-
	Dinitrogen difluoride, (E)-
Inchi:	InChI=1S/F2N2/c1-3-4-2/b4-3+
InchiKey:	DUQAODNTUBJRGF-ONEGZZNKSA-N
Formula:	F2N2
SMILES:	FN=NF
Mol. weight [g/mol]:	66.01
CAS:	13776-62-0

Physical Properties

Property code	Value	Unit	Source
hf	-388.33	kJ/mol	Joback Method
hvap	20.63	kJ/mol	Joback Method
ie	12.80	eV	NIST Webbook
ie	12.80	eV	NIST Webbook
ie	13.10 ± 0.10	eV	NIST Webbook
log10ws	-0.77		Crippen Method
logp	1.208		Crippen Method
mcvol	30.060	ml/mol	McGowan Method
pc	4056.96	kPa	Joback Method
tb	161.80 ± 0.70	K	NIST Webbook
tc	260.00 ± 3.00	K	NIST Webbook
tf	101.00 ± 2.00	K	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13776620&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point