

(Z)-Difluorodiazene

Other names:	Nitrogen fluoride (N ₂ F ₂), (Z)- cis-Difluorodiazene cis-1,2-Difluorodiimide Nitrogen fluoride, cis FNNF
Inchi:	InChI=1S/F2N2/c1-3-4-2/b4-3-
InchiKey:	DUQAODNTUBJRGF-ARJAWSKDSA-N
Formula:	F ₂ N ₂
SMILES:	FN=NF
Mol. weight [g/mol]:	66.01
CAS:	13812-43-6

Physical Properties

Property code	Value	Unit	Source
hf	-388.33	kJ/mol	Joback Method
hvap	20.63	kJ/mol	Joback Method
log10ws	-0.77		Crippen Method
logp	1.208		Crippen Method
mcpvol	30.060	ml/mol	McGowan Method
pc	4056.96	kPa	Joback Method
tb	167.50 ± 1.00	K	NIST Webbook
tc	272.00 ± 3.00	K	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13812436&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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