

Imidosulfurous difluoride, (trifluoromethyl)-

Other names:	N-Trifluoromethylimidosulfurous difluoride
Inchi:	InChI=1S/CF5NS/c2-1(3,4)7-8(5)6
InchiKey:	VVZLBKDAOLLASD-UHFFFAOYSA-N
Formula:	CF5NS
SMILES:	FS(F)=NC(F)(F)F
Mol. weight [g/mol]:	153.07
CAS:	1512-14-7

Physical Properties

Property code	Value	Unit	Source
hf	-1043.60	kJ/mol	Joback Method
hvap	22.74	kJ/mol	Joback Method
log10ws	-1.21		Crippen Method
logp	2.077		Crippen Method
mcvol	60.130	ml/mol	McGowan Method
pc	3551.53	kPa	Joback Method
tb	359.48	K	Joback Method
tc	536.38	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1512147&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

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

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