

Thiazyl trifluoride

Inchi: InChI=1S/F3NS/c1-5(2,3)4
InchiKey: UQUPGRNSXINWBS-UHFFFAOYSA-N
Formula: F3NS
SMILES: N#S(F)(F)F
Mol. weight [g/mol]: 103.07
CAS: 15930-75-3

Physical Properties

Property code	Value	Unit	Source
ie	12.46 ± 0.03	eV	NIST Webbook
ie	12.50	eV	NIST Webbook
log10ws	-1.82		Crippen Method
logp	1.924		Crippen Method
mcpvol	42.500	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	23.10	kJ/mol	226.00	NIST Webbook

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C15930753&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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