Mononitrogen monosulfide

Inchi: InChI=1S/NS/c1-2
InchiKey: QXTCFDCJXWLNAP-UHFFFAOYSA-N
Formula: NS
SMILES: [N]=S
Mol. weight [g/mol]: 46.07
CAS: 12033-56-6

Physical Properties

Property code	Value	Unit	Source
ea	1.19 ± 0.01	eV	NIST Webbook
ie	9.85 ± 0.28	eV	NIST Webbook
ie	8.87 ± 0.01	eV	NIST Webbook
log10ws	5.61		Crippen Method
logp	-0.483		Crippen Method
mcvol	30.740	ml/mol	McGowan Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C12033566&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

ea: Electron affinity
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume