

# 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](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

Latest version available from:

<https://www.chemeo.com/cid/46-414-1/Mononitrogen-monosulfide.pdf>

Generated by Cheméo on 2024-04-27 11:05:15.013066913 +0000 UTC m=+16505163.933644229.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.