

# Ethionamide

**Other names:** 1314 TH  
1314 TN  
2-Ethyl-4-thioamidylpyridine  
2-Ethyl-4-thiocarbamoylpyridine  
2-Ethylisonicotinic acid thioamide  
2-Ethylisonicotinothiamide  
2-Ethylisonicotinothioamide  
2-Ethylisonicotinthioamide  
2-Ethylisothionicotinamide  
2-ethyl-4-pyridinecarbothioamide  
2-ethylpyridine-4-carbothioamide  
2-ethylthioisonicotinamide  
4-Pyridinecarbothioamide, 2-ethyl-  
Aetina  
Aetiva  
Amidazin  
Amidazine  
Atina  
Bayer 5312  
ETP  
Ethimide  
Ethina  
Ethinamide  
Ethionamid prothionamid  
Ethioniamide  
Ethylisothiamide  
Ethyonomide  
Etimid  
Etiocidan  
Etionamid  
Etioniamid  
Etionid  
Etionizin  
Etionizina  
Etionizine  
F.I. 58-30  
Fatoliamid  
Iridocin  
Iridocin Bayer  
Iridoizin

Isonicotinamide, 2-ethyl, thio-  
Isothin  
Isotiamida  
Itiocide  
NCI-C01694  
Nicotion  
Nisotin  
Nizotin  
Rigenicid  
Sertinon  
Teberus  
Th 1314  
Thianid  
Thianide  
Thioamide  
Thiodine  
Thiomid  
Thioniden  
Tianid  
Tiomid  
Trecator  
Trecator-SC  
Trekator  
Trescatyl  
Trescazide  
Tubenamide  
Tubermin  
Tuberoid  
Tuberoson  
«alpha»-Ethylisonicotinic acid thioamide  
«alpha»-Ethylisonicotinoylthioamide  
«alpha»-Ethylisothionicotinamide  
«alpha»-Ethylthioisonicotinamide

**Inchi:** InChI=1S/C8H10N2S/c1-2-7-5-6(8(9)11)3-4-10-7/h3-5H,2H2,1H3,(H2,9,11)  
**InchiKey:** AEOCXXJPGCBFJA-UHFFFAOYSA-N  
**Formula:** C8H10N2S  
**SMILES:** CCc1cc(C(N)=S)ccn1  
**Mol. weight [g/mol]:** 166.24  
**CAS:** 536-33-4

# Physical Properties

Property code	Value	Unit	Source
log10ws	-2.81		Crippen Method
logp	1.278		Crippen Method
mcvol	131.830	ml/mol	McGowan Method
rinpol	1756.00		NIST Webbook
rinpol	1720.00		NIST Webbook
rinpol	1720.00		NIST Webbook
tf	435.90	K	Studying the sublimation thermodynamics of ethionamide and pyridine carbothioamide isomers by transpiration method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C536334&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:** [https://www.cheméo.com/doc/models/crippen\\_log10ws](https://www.cheméo.com/doc/models/crippen_log10ws)

**Studying the sublimation thermodynamics of ethionamide and pyridine carbothioamide isomers by transpiration method:** <https://www.doi.org/10.1016/j.tca.2015.10.009>

**Transpiration method for the determination of the solubility of ethionamide and pyridine carbothioamide isomers by structural analogues in buffer solutions: Octanol and hexane at several temperatures:** <https://www.doi.org/10.1016/j.tca.2016.07.020>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

- log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinpol:** Non-polar retention indices  
**tf:** Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/31-632-5/Ethionamide.pdf>

Generated by Cheméo on 2024-04-16 21:27:09.058672544 +0000 UTC m=+15592077.979249856.

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