

# 3-Amino-s-triazole

**Other names:**

- 1,2,4-triazol-3-amine
- 1,2,4-triazol-3-ylamine
- 1,2,4-triazole, 3-amino-
- 1H-1,2,4-Triazol-3-amine
- 1H-1,2,4-Triazol-3-ylamine
- 1H-1,2,4-Triazol-5-amine
- 1H-1,2,4-Triazole, 3-amino-
- 1H-1,2,4-Triazole-3-amine
- 2,3,5,6-Tetraazabicyclo[2.1.1]hex-1-ene
- 2-Amino-1,3,4-triazole
- 3-AT
- 3-Amino-1,2,4-triazol
- 3-Amino-1,2,4-triazole
- 3-Amino-1H-1,2,4-triazole
- 3-Aminotriazole
- 5-Amino-1,2,4-triazole
- 5-Amino-1H-1,2,4-triazole
- AT
- ATA
- Amerol
- Aminotriazol-spritzpulver
- Aminotriazole
- Aminotriazole (plant regulator)
- Aminotriazole bayer
- Amitolamitril
- Amitril T.L.
- Amitrol
- Amitrol 90
- Amitrol-T
- Amitrole
- Amizol
- Amizol D
- Amizol DP NAU
- Amizol F
- Azaplant
- Azaplant kombi
- Azolan
- Azole
- Campaprim A 1544
- Cytrol

Cytrole  
DiuroI 5030  
ENT 25445  
Elmasil  
Emisol  
Emisol 50  
Emisol F  
Fenavar  
HerbidaI Total  
Herbizole  
Kleer-Lot  
MSS aminotriazole  
Maxata  
Orga-414  
Radoxone TL  
Ramizol  
Solution concentree T271  
TMG  
Triazolamine  
USAF XR-22  
Vorox  
Vorox AA  
Vorox AS  
Weedar ADS  
Weedar AT  
Weedazin  
Weedazin arginit  
Weedazol  
Weedazol GP2  
Weedazol T  
Weedazol super  
Weedex granulat  
Weedoclor  
s-Triazole, 3-amino-  
x-all Liquid

**Inchi:** InChI=1S/C2H4N4/c3-2-4-1-5-6-2/h1H,(H3,3,4,5,6)  
**InchiKey:** KLSJWNVTNUYHDU-UHFFFAOYSA-N  
**Formula:** C2H4N4  
**SMILES:** Nc1nc[nH]n1  
**Mol. weight [g/mol]:** 84.08  
**CAS:** 61-82-5

# Physical Properties

Property code	Value	Unit	Source
chs	-1435.50 ± 3.90	kJ/mol	NIST Webbook
hfs	76.80 ± 3.90	kJ/mol	NIST Webbook
ie	8.30	eV	NIST Webbook
log10ws	0.52		Aqueous Solubility Prediction Method
log10ws	0.52		Estimated Solubility Method
logp	-1.095		Crippen Method
mcvol	59.500	ml/mol	McGowan Method
rinpol	1300.00		NIST Webbook
rinpol	1324.00		NIST Webbook
tf	429.48	K	Aqueous Solubility Prediction Method
tf	429.28 ± 0.20	K	NIST Webbook
tf	428.90 ± 0.20	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	21.93	kJ/mol	428.30	NIST Webbook

# Sources

- Estimated Solubility Method:** [http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl\\_file/ci034243xsi20040112\\_053635.txt](http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt)
- McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>
- NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C61825&Units=SI>
- Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
- Solubility determination and thermodynamic modelling of aqueous 1,2,4-triazole in ten organic solvents from T = 283.15 K to T = 318.15 K and mixing properties of solutions:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinpol:</b>	Non-polar retention indices
<b>tf:</b>	Normal melting (fusion) point

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