

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
Herbidal 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: KLSJWNVTNUYH DU-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

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/ci990307l>

Solubility determination and

<https://www.doi.org/10.1016/j.jct.2016.09.033>

thermodynamic modelling of

Aqueous Solubility Prediction Method:

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

solvents from T = 283.15 K to T =

Estimated Solubility Method:

http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

solutions:

Legend

chs:	Standard solid enthalpy of combustion
hfs:	Solid phase enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion 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
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point

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