

# 3-Tetrazene-2-carboximidamide, 4-(1H-tetrazol-5-yl)-, monohydrate

Other names:	3-Tetrazene-2-carboximidamide, 4-(2H-tetrazol-5-yl)-, hydrate (1:1) tetrazene
Inchi:	InChI=1S/C2H6N10/c3-1(4)12(5)11-8-2-6-9-10-7-2/h5H2,(H3,3,4)(H,6,7,9,10)/b11-8+
InchiKey:	WSLWDHGXSGRREP-DHZHZOJOSA-N
Formula:	C2H6N10.H2O
SMILES:	<chem>N=C(N)N(N)N=Nc1nnn[nH]1</chem>
Mol. weight [g/mol]:	188.15
CAS:	31330-63-9

## Physical Properties

Property code	Value	Unit	Source
chs	-2120.00 ± 3.00	kJ/mol	NIST Webbook
hfs	189.00 ± 3.00	kJ/mol	NIST Webbook
log10ws	-1.56		Crippen Method
logp	-2.214		Crippen Method
mcvol	110.780	ml/mol	McGowan Method

## Sources

Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C31330639&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C31330639&amp;Units=SI</a>

## Legend

chs:	Standard solid enthalpy of combustion
hfs:	Solid phase enthalpy of formation at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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