

## Metribuzin

## Chemical Properties

CAS No. : 21087-64-9

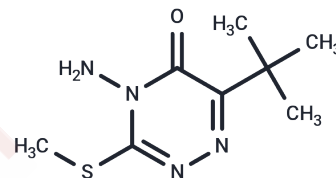
Formula: C<sub>8</sub>H<sub>14</sub>N<sub>4</sub>O<sub>5</sub>

Molecular Weight: 214.29

Storage: Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Metribuzin (4-amino-6-tert-butyl-3-(methylthio)-as-triazin-5(4H)-one) is a selective triazinone herbicide applied in both pre- and post-emergence agricultural practices for the control of weeds in a variety of crops including soybeans, potatoes, tomatoes, and sugar cane, which functions by inhibiting the photosynthetic process through the specific disruption of the electron transport chain within photosystem II, and its extensive use has resulted in its classification as a persistent environmental contaminant frequently detected in groundwater sources.
Targets(IC50)	Others, DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: ≥ 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6666 mL	23.3329 mL	46.6657 mL
5 mM	0.9333 mL	4.6666 mL	9.3331 mL
10 mM	0.4667 mL	2.3333 mL	4.6666 mL
50 mM	0.0933 mL	0.4667 mL	0.9333 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Zhang H, et al. Biodegradation of triazine herbicide metribuzin by the strain *Bacillus* sp. N1. *J Environ Sci Health B*. 2014;49(2):79-86.
- Sahoo S, et al. Kinetics of metribuzin release from bentonite-polymer composites in water. *J Environ Sci Health B*. 2014;49(8):591-600.
- Koutnik D, et al. The effect of subchronic metribuzin exposure to signal crayfish (*Pacifastacus leniusculus* Dana 1852). *Neuro Endocrinol Lett*. 2014;35 Suppl 2:51-6.
- Singh N, et al. Effect of fly ash amendment on persistence of metribuzin in soils. *J Environ Sci Health B*. 2013;48(2):108-13.

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