

Product Data Sheet

Product Name: Atrazine-d5

Cat. No.: GC91349

Chemical Properties

Cas. No. 163165-75-1

Formula $C_8H_9ClD_5N_5$

M.Wt 220.7

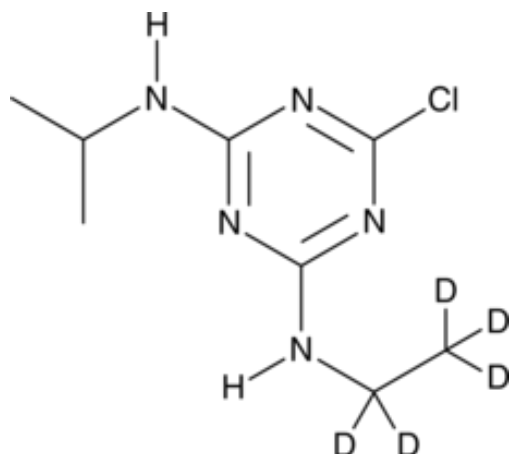
Solubility DMSO: Slightly soluble, Ethanol: Slightly soluble, Methanol: Slightly soluble (heated)

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Atrazine-d5 is intended for use as an internal standard for the quantification of atrazine by GC- or LC-MS. Atrazine is an herbicide.¹ It induces lethality in poppy plants (*P. somniferum*) when applied at a concentration of 250 g AI/ha.² Atrazine (1.6% AI/L at planting) inhibits the emergence of summer grass (*D. sanguinalis*), barnyard grass (*E. crus-galli*), smooth witchgrass (*P. dichotomiflorum*), and paspalum (*P. dilatatum*) and increases maize yields in field trials.¹ It decreases serum levels of

Caution: Product has not been fully validated for medical applications. For research use only.

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testosterone and increases the incidence of hermaphroditism in adult male frogs when used at a concentration of 25 ppb in the water during larval development.³ It decreases uterine size and reduces serum levels of estrogen, progesterone, luteinizing hormone, follicle-stimulating hormone, and prolactin in female rats when administered at a dose of 300 mg/kg per day.⁴ Dietary administration of atrazine (1000 ppm) increases the incidence of mammary tumors in rats.⁵ Formulations containing atrazine have been used as herbicides in agriculture.

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