Simetryn
Item No. 20392

CAS Registry No.: 1014-70-6
Formal Name: N²,N⁴-diethyl-6-(methylthio)-1,3,5-triazine-2,4-diamine
Synonym: NSC 163051
MF: C₈H₁₅N₅S
FW: 213.3
Purity: ≥98%
UV/Vis.: λ_max: 222 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Simetryn is supplied as a crystalline solid. A stock solution may be made by dissolving the simetryn in the solvent of choice. Simetryn is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of simetryn in these solvents is approximately 30 mg/ml.

Simetryn is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, simetryn should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Simetryn has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Simetryn is a triazine herbicide that is primarily used to control broad-leaved weeds and grass in paddy rice and other crops. It is absorbed through roots and foliage and inhibits photosynthesis. Like other triazine herbicides, simetryn is characterized by high persistence and toxicity.

References