DITHIOBIURET

Product Number D 3190
Storage Temperature 25 °C

CAS#: 541-53-7
Synonyms: Thioimidodicarbonic diamide; Dithioallophanimidic acid; 2,4-Dithiobiuret; Imidodicarbonimidothioic diamide

Product Description
Molecular Formula: C$_2$H$_5$N$_3$S$_2$
Molecular Weight: 135.2

Dithiobiuret is a paralytic agent, causing delayed-onset neuromuscular weakness in rats.\(^1\) Studies on rat pheochromocytoma (PC12) exposed to dithiobiuret suggests that the product may directly affect the mechanism involved in acetylcholine neurotransmitter release.\(^2\) Dithiobiuret may also have a general toxicity on particular cell types.\(^3\)

Precautions and Disclaimer
This product is for laboratory use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
Dithiobiuret is soluble in water at 2.7 mg/ml and at 22 mg/g of ethanol. Dithiobiuret is also soluble at 290 g/g of a 10% sodium hydroxide solution.

References