
Product Data Sheet

Product Name: Bismuth subnitrate

Cat. No.: GC64742

Chemical Properties

Cas. No. 1304-85-4

Formula Bi5H9N4O22

M.Wt 1461.99

Solubility DMSO : 20 mg/mL (13.68 mM; ultrasonic and warming and heat to 60°C); H₂O : 1 mg/mL (0.68 mM; ultrasonic and warming and heat to 60°C)

Storage 4°C, protect from light, stored under nitrogen

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**

Bismuth subnitrate (Bismuth(III) oxynitrate) is a bismuth(III) compound that bears significant medical uses (e.g., as an antidiarrheic agent). Bismuth subnitrate is a simple, readily available and effective catalyst for the Markovnikov-type hydration of terminal acetylenes[1].

[1]. SzÉcsÉnyi Z, et al. Bismuth Subnitrate-Catalyzed Markovnikov-Type Alkyne Hydrations under Batch and Continuous Flow Conditions. *Molecules*. 2021;26(10):2864. Published 2021 May 12.

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

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