

Product Data Sheet

Product Name: Ammonium tungstate

Cat. No.: GB57031

Chemical Properties

Cas. No. 11140-77-5

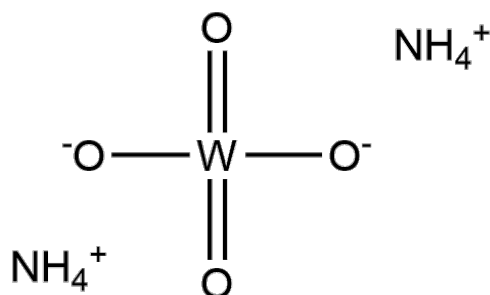
Formula $(\text{NH}_4)_{10}\text{H}_2(\text{W}_2\text{O}_7)_6$ M.Wt 283.91

Solubility Storage Store at RT

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

Ammonium tungstate is a kind of oxygen-containing ammonium salt which is an important product in the tungsten industry [1, 2]. By evaporating and crystallizing the Ammonium tungstate solution, ammonium paratungstate (APT) can be prepared, which is an important class of metal oxides with applications for catalysis, electronics, and functional materials [2, 3].

References:

[1] E S, Li C, Li T, et al. Ammonium-tungstate-promoted growth of boron nitride nanotubes [J]. Nanotechnology, 2018, 29(19): 195604.

[2] Yang L, Qu J, Gong D, et al. Solventing out crystallization-basic magnesium carbonate precipitation for thorough phosphorus removal from ammonium tungstate solution [J]. Frontiers in chemistry, 2022, 10: 976376.

[3] Berkson Z J, Bernhardt M, Copéret C. Solid-State (183)W NMR Spectroscopy as a High-

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

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Resolution Probe of Polyoxotungstate Structures and Dynamics [J]. The journal of physical chemistry letters, 2024, 15(7): 1950-1955.

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