

## 1. Identification

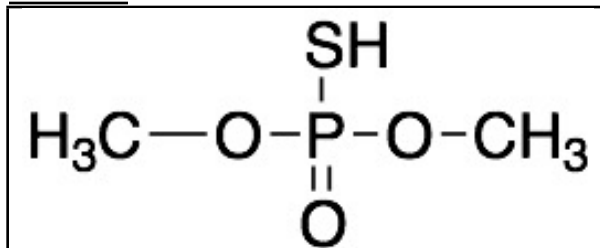
Catalogue Number

D495418

Lot Number

27-IHB-197-1

Structure



Product Name

DMTP

Synonyms

DMPT; Methyl Phosphorothioate; Dimethyl Phosphorothioate; Dimethyl Phosphorothionate; Dimethyl Phosphothionate; O,O-Dimethyl S-Hydrogen Phosphorothioic Acid; O,O-Dimethyl Hydrogen Phosphorothioate; O,O-Dimethyl Phosphorothioate; O,O-Dimethyl Phosphorothioic Acid; O,O-Dimethyl Thiophosphate;

CAS Number

1112-38-5

Solubility

Chloroform (Slightly), Ethyl Acetate (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature With Dry Pack

Molecular Formula

C<sub>2</sub>H<sub>7</sub>O<sub>3</sub>PS

Source of Product

Synthetic

Long Term Storage Conditions

-20°C, Inert atmosphere

Molecular Weight

142.11

Purity

>95%

## 2. Warnings

Air Sensitive, Moisture Sensitive

## 3. Analytical Information

Tests

Appearance

Specifications

Colourless to Pale Yellow Oil

Results

Clear Colourless to Pale Yellow Oil

NMR

Conforms to Structure

Conforms

C NMR

Conforms to Structure

Conforms

P NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 16.27, %H: 5.42

HPLC Purity

>95%

99.77% (205 nm)

MS

Conforms to Structure

Conforms

Additional Information

N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

## 4. Signatures

Reviewed by

R. Reddy

Reviewed by

Toni Rantanen

C of A Approved by

Chanell Chu

Test Date

7/24/2024

Retest Date

7/22/2025

Swathi Reddy

Toni Rantanen

Chanell Chu

Product Quality Specialist

Manager, Quality Assurance

Quality Assurance Associate