

Certificate of Analysis

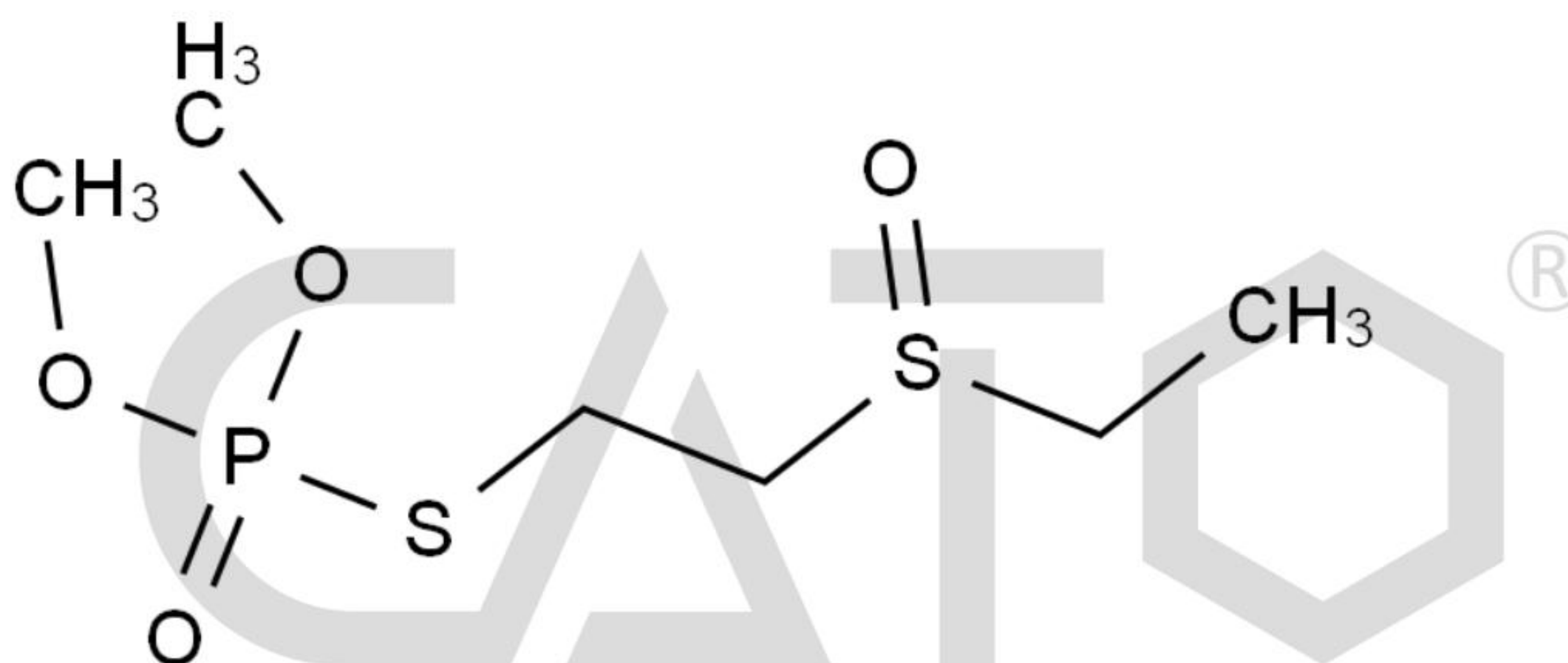
Reference Material & Standard

Product Name:	Demeton-S-Methyl Sulfoxide	Catalogue Number:	CCPD100281
Synonyms:	N/A	Lot Number:	0928-RE-0019
CAS Number:	301-12-2	Expiry Date:	Apr 10, 2025
Molecular Formula:	C ₆ H ₁₅ O ₄ PS ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	246.28	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Purity	UPLC	97.96%
Water Content	Karl Fischer	0.61%
Assay		97.4%
Uncertainty		±2.0%

Comment:

1. No chromatogram available.
2. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity UPLC (\%)} / 100\%$$

Water Content is considered as absolute effect, UPLC purity is considered as relative effect.
3. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Approved by General Manager:

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Date: Sep 28, 2023

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