



CERTIFICATE OF ANALYSIS

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1. Identification

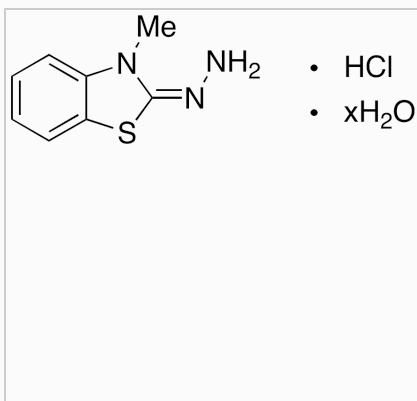
Catalogue Number: M288930

CAS Number: 149022-15-1

Product: 3-Methyl-2-benzothiazolinone
Hydrazone Hydrochloride Hydrate

Synonym: 3-Methyl-2(3H)-benzothiazolone Hydrazone
Monohydrochloride Hydrate; MBTH
Hydrochloride Hydrate;

Structure:



Molecular Formula:

C₈H₁₀ClN₃S•xH₂O

Molecular weight:

215.70 + x(18.02)

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol
(Slightly, Heated), Water
(Slightly, Sonicated)

Lot Number: 4-KMT-174-2

Purity: 98%

Shipping Condition: This Product Is Stable To Be
Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Hygroscopic

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Light Gray Solid	Off-White Solid
Melting Point	Report Results	>252°C (dec.)
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 44.37, %H: 4.86, %N: 19.54
HPLC Purity	>95%	99.64%
MS	Conforms to Structure	Conforms
Chloride Content	Report Results	16.54% by Ion Chromatography

Additional Information: NA

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	Reviewed By	C of A Approved By	Test Date	Retest Date
Eric Beaton	Philip Chan	My Nguyen	11/6/2018	11/4/2025