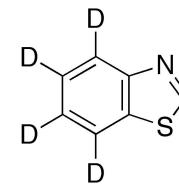


CERTIFICATE OF ANALYSIS**1. Identification**

Catalogue Number B206642
Product Name Benzothiazole-d4

Lot Number 22-MGG-167-2

StructureSynonyms

Benzothiazole-4,5,6,7-d4; 1-Thia-3-azaindene-d4; Benzo[d]thiazole-d4; Benzosulfonazole-d4; NSC 8040-d4; Vangard BT-d4;

CAS Number

194423-51-3
Solubility
 Chloroform (Slightly), Methanol (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₇HD₄NS

Source of Product

Synthetic

Long Term Storage Conditions

4°C

Molecular Weight

139.21
Purity
 >95%

2. Warnings

Not Determined

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	Light Red to Dark Brown Oil	Clear Colourless to Light Brown Oil
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 59.11, %H: 3.71, %N: 9.92
HPLC Purity	>95%	96.86% (255 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.1%

Additional Information

Normalized Intensity: d₀ = 0.26%, d₁ = 0.03%, d₂ = 0.36%, d₃ = 5.58%, d₄ = 93.76%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. 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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			8/23/2023	8/21/2027

Nicole Yip
 Product Quality Specialist

Toni Rantanen
 Manager, Quality Assurance

Christina Gouliaras
 Quality Assurance Associate