

CERTIFICATE OF ANALYSIS

Standard product specification

Benzene-D1, 98 Atom % D

CAS 119516-83-5 · Fine chemical grade — assay on specification

1. PRODUCT IDENTITY

Product name	Benzene-D1, 98 Atom % D
C.A.S. number	119516-83-5
Grade / standard	Fine chemical grade — assay on specification
Description	Clear colorless liquid
Product group	Deuterated NMR Solvents
Category	Laboratory & Analytical Reagents
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Clear colorless liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Purity (by GC)	Not less than 99.5 % (area)	99.84	Gas Chromatography
4	Colour (APHA / Pt-Co)	Not more than 10	2	ASTM D1209
5	Water Content	Not more than 0.05 % w/w	0.0046	Karl Fischer titration
6	Acidity (as acetic acid)	Not more than 0.002 % w/w	0.0002	Titrimetry

7	Residue on Evaporation	Not more than 0.001 % w/w	0.0003	Gravimetry
8	Specific Gravity at 25 °C	0.871 – 0.877	0.8730	Pycnometry / ASTM D4052
9	Refractive Index at 20 °C	1.4991 – 1.5031	1.5007	Refractometry / ASTM D1218

3. DECLARATION

This document sets out the standard specification for Benzene-D1, 98 Atom % D and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.



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