

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-10 17:22:12
 Date of Next Testing: 2026-04-08 17:22:12
 Product Name: **Zirconium butoxide solution**
 CAS Number: 1071-76-7
 Specifications & Purity: 80 wt. % in n-butanol
 Lot #: F2517624
 SKU #: **Z106334**
 Version: **1**
 Analysis #: **579889**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Hydrolyzable Chloride	0-1000 (ppm)	0.53 ppm
Density (20°C)	1.06-1.08	1.07
Iron(Fe)	0-300 (ppm)	2.30 ppm
ZrO ₂ basis	27-29 (%)	28.53 %
Concentration(Chelometric Method)	80-86 (%)	85.82 %
Appearance (Z106334)	Colorless to Yellow Viscous Liquid	Colorless to Yellow Viscous Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Clear, Colorless to Yellow	pass	Pass
Solvent(C ₄ H ₁₀ O)	Conform	Conform



John Su
QA & QC Manager