

Certificate of Analysis

Date of Testing: 2024-09-20 15:45:34
Date of Next Testing: 2025-03-19 15:45:34
Product Name: **Zirconium butoxide solution**
CAS Number: 1071-76-7
Specifications & Purity: 80 wt. % in n-butanol
Lot #: C2413100
SKU #: **Z106334**
Version: **0**
Analysis #: **413444**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Hydrolyzable Chloride	0-1000 (ppm)	1.05 ppm
Density (20°C)	1.06-1.08	1.07
Iron(Fe)	0-300 (ppm)	1.98 ppm
ZrO ₂ basis	27-29 (%)	28.55 %
Concentration(Chelometric Method)	80-86 (%)	85.58 %
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



John Su
QA & QC Manager