

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 #: C2413099
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