

## Certificate of Analysis

Date of Testing: 2024-06-18 18:44:07  
Date of Next Testing: 2027-06-18 18:44:07  
Product Name: **Samarium(III) acetylacetonate hydrate**  
CAS Number: 86322-73-8  
Specifications & Purity:  $\geq 99.9\%$  trace metals basis  
Lot #: F2415003  
SKU #: **S283489**  
Version: **1**  
Analysis #: **364476**

Parameter	Limit Values	Result
Purity Based On Rare Earth Analysis	99.9-100 (%)	99.96 %
Trace Rare Earth Analysis	0-1000 (ppm)	420.00 ppm
Compleximetric EDTA (% Sm)	25-33 (%)	30.98 %
Water by Karl Fischer	0-14 (%)	11.28 %
Appearance(S283489)	White to Faint Yellow Powder	White to Faint Yellow Powder
ICP: Major Analysis Confirms Samarium Component	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager