

Certificate of Analysis

Date of Testing: 2024-11-18 17:06:40

Date of Next Testing: 2026-11-08 17:06:40

Product Name: **Dichloro(pentamethylcyclopentadienyl)ruthenium(III) polymer**

CAS Number: 96503-27-4

Specifications & Purity: $\geq 97\%$

Lot #: A2331654

SKU #: **D118509**

Version: **0**

Analysis #: **438193**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	36.7-41.4 (%)	38.60 %
Purity(Titration by AgNO ₃)	96.5-103.5 (%)	97.98 %
Melting point	45-47 (°C)	46.19800 °C
Appearance (D118509)	Red-brown to Brown to Black Powder or Crystalline Powder	Red-brown to Brown to Black Powder or Crystalline Powder
ICP: Confirms Ruthenium Component	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure
NMR (1H-NMR)	complies	complies



John Su
QA & QC Manager