

Certificate of Analysis

Date of Testing: 2023-02-21 08:23:26

Date of Next Testing: 2027-02-20 08:23:26

Product Name: 9-(9-Heptadecanyl)-2,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)carbazole

CAS Number: 958261-51-3

Specifications & Purity: $\geq 97\%$

Lot #: B2314355

SKU #: H156943

Version: 1

Analysis #: 158218

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Melting point	144-148 (°C)	146.37000 °C
Carbon by Elemental Analysis	71.12-78.60 (%)	74.59 %
Nitrogen by Elemental Analysis	2.02-2.24 (%)	2.18 %
Appearance (H156943)	White to Beige Powder, Crystals and/or Chunks	White to Beige Powder, Crystals and/or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager