

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-03-11 10:42:57

Date of Next Testing: 2026-03-01 10:42:57

Product Name: **1,1'-Bis(diphenylphosphino)ferrocene (DPPF)**

CAS Number: 12150-46-8

Specifications & Purity: $\geq 99\%$

Lot #: B2429160

SKU #: **B396443**

Version: **2**

Analysis #: **320447**

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

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.80000 %
Carbon by Elemental Analysis	70.9-74.7 (%)	72.56000 %
Phosphorus NMR spectrum	conforms to structure	Conforms to Structure
Proton NMR spectrum	Conforms to structure	Conforms to Structure
ICP: Confirms Iron Component	Confirmed	Confirmed
Infrared spectrum	Conforms to structure	Conforms to Structure
Appearance (B396443)	Yellow to Dark Yellow and Orange to Dark Orange to Brown powder to crystalline solid	Yellow to Dark Yellow and Orange to Dark Orange to Brown powder to crystalline solid



John Su
QA & QC Manager