

## Certificate of Analysis

Date of Testing: 2023-12-20 13:51:47  
Date of Next Testing: 2025-12-09 13:51:47  
Product Name: **1,1'-Bis(dicyclohexylphosphino)ferrocene**  
CAS Number: 146960-90-9  
Specifications & Purity: 97%  
Lot #: C2204293  
SKU #: **B115628**  
**Analysis:** **302880**  
Storage Temperature: Argon charged

| Parameter                    | Limit Values          | Result                |
|------------------------------|-----------------------|-----------------------|
| Carbon by Elemental Analysis | 68.1-73.1 (%)         | 69.75 %               |
| Appearance (B115628)         | Orange to Red powder  | Orange to Red powder  |
| ICP: Confirms Fe Components  | Confirmed             | Confirmed             |
| Infrared spectrum            | Conforms to Structure | Conforms to Structure |
| Proton NMR spectrum          | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager