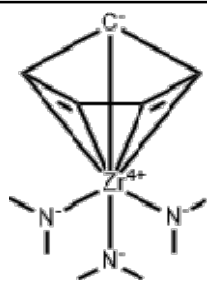




SHANGHAI ORIPHANT CHEMISTY CO., LTD.

源象化学
ORIPHANT CHEMISTY

Certification of Analysis

Product Name	Cyclopentadienyl Tris(dimethylamino) Zirconium	
CAS No.	33271-88-4	
Batch No.	101013003031522001	
Date of MFG	2022.3.15	
Date of Test	2022.3.16	
Date of Expiry	2022.9.15	

No.	Test Item	Specification	Result
1	Appearance(Color)	white to off-white	white to off-white
2	Appearance(Form)	crystal	crystal
3	Purity (1H-NMR)	99%min	99%+
4	1H-NMR	confirms to structure	confirms to structure
5	Purity (Based On Trace Metals Anaysis)	99.99% min	99.999%

Conclusion: Conform to the standard of electronic grade chemicals

Analyzer :Hua Wu

Approved:Yuelai Zhang

Report Date:2022.3.16