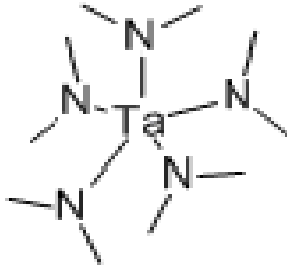




SHANGHAI ORIPHANT CHEMISTY CO., LTD.

源象化学
ORIPHANT CHEMISTY

Certification of Analysis

Product Name	Pentakis(dimethylamino)tantalum(V)	
CAS No.	19824-59-0	
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)	orange	orange
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