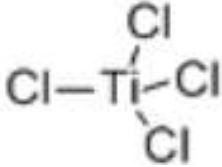




SHANGHAI ORIPHANT CHEMISTRY CO., LTD.

源象化学
ORIPHANT CHEMISTRY

Certification of Analysis

Product Name	Titanium tetrachloride	
CAS No.	7550-45-0	
Batch No.		
Date of MFG	2022.09.25	
Date of Test	2022.09.26	
Date of Expiry	2023.09.25	

No.	Test Item	Specification	Result
1	Appearance(Color)	light yellow	light yellow
2	Appearance(Form)	liquid	liquid
3	Purity (1H-NMR)	99%min	99%+
4	1H-NMR	confirms to structure	confirms to structure
5	Purity (Based On Trace Metals Analysis)	99.999% min	99.999%

Conclusion: Conform to the standard of electronic grade chemicals

Analyzer : Hua Wu

Approved: Yuelai Zhang

Report Date: 2022.09.26