



山东八方化工科技有限公司

SHANDONG OCTAGON CHEMICALS LIMITED

CERTIFICATE OF ANALYSIS



Product name	<u>Tiopronin (Cas 1953-02-2)</u>		
Batch No.	240301	Mfg. Date	2024.03.17
Rep. Date	2024.03.25	Retest Date	2026.03.16
Packaging	25KG/Bag/TIn/Drum	Batch Quantity	92.9KG
Test Items	Standards: JPC2002&Enterprise		Results
Appearance	A white crystal or crystalline powder		A white crystalline powder
Identification	Color reaction HPLC IR		Conforms
Solubility clarity and color	Clear and colorless		conforms
Melting range	96°C~99°C		96°C~97°C
PH	1.5~3.0		2.2
Sulfate	NMT0.05%		<0.05%
Related substances	Impurity III: NMT1.5% Other single impurity: NMT0.5% Sum of other impurities: NMT1.0%		0.46% 0.1% 0.31%
Residual solvents	Ethyl acetate: NMT5000ppm		90ppm
Loss on drying	NMT0.5%		0.08%
Residue on ignition	NMT0.1%		0.03%
Fe	NMT5ppm		<5ppm
As	NMT2ppm		<2ppm
Heavy metals	NMT10ppm		<10ppm
Microbial test	TAMC: NMT1000cfu/g TYMC: NMT100cfu/g E. coli: Negative		<100cfu/g <100cfu/g Negative
Assay	NLT98.5% (on the dried basis)		99.7%
Conclusion	It meets the requirements of JPC2002&Enterprise Standards		
Storage	Store in an air-tight container at ambient temperatures		
Reporter: LI			

