



Shinghwa Advanced Material Group Co.,Ltd.

胜华新材料集团股份有限公司

## Certificate of Analysis

Product Name: Acetonitrile

Batch No.: ACN-23081201

Quantity: 12800kgs

Production Date: Aug. 12th. 2023

Expiration Date: Aug. 11th. 2024

Manufacturer's Name: Lihuayi Lijin Refining&Chemical Co., Ltd.

Item	Unit	Specification	Result
Appearance	--	Colorless, limpid liquid	Colorless, limpid liquid
Specific gravity <sub>20/20</sub> °C	g/m <sup>3</sup>	0.782-0.785	0.782
Distillation range	°C	80.0-82.0	81.1-81.4
Acetonitrile	%	99.9 min	99.99
Water	mg/kg	300 max	100
Hydrocyanic Acid (As HCN)	mg/kg	10 max	1
Acidity as Acetic acid	mg/kg	50 max	5.2
Copper	mg/kg	0.50 max	0.02
Iron	mg/kg	0.50 max	0.03
Acrylonitrile	mg/kg	25 max	7
Acetone	mg/kg	25 max	1
Free Ammonia	mg/kg	6 max	< 1
Heavy Component (Propionitrile included)	mg/kg	500 max	13
Color(APHA Pt-Co)	-	10 max	5

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Conclusion: The product of this batch can match the specification by analysis.

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Authorized Signature