

ORIGINAL**TAE KWANG INDUSTRIAL CO., LTD.****PETROCHEMICAL 3RD PLANT
CERTIFICATE OF ANALYSIS**

Date : 2021.09.16

PRODUCT:ACRYLONITRILE

TO: URMI CHEMICALS

BATCH NO.20210916

MANUFACTURING DATE: 2021.09.16

EXPIRY DATE: 2023.09.16

<u>NO</u>	<u>ITEM</u>	<u>UNIT</u>	<u>SPECIFICATION</u>	<u>ANALYSIS</u>	<u>TEST METHOD</u>
1	Acetone	wt ppm	200 max	LT 10	CB 026
2	Acetonitrile	wt ppm	300 max	LT 10	CB 026
3	Acidity (as Acetic Acide)	wt ppm	20 max	15	CB 119
4	Acrolein	wt ppm	10 max	7.6	ACRN 3
5	Aldehydes as Acetaldehyde	wt ppm	50 max	LT 10	CB 026
6	Appearance		Clear, Free of suspended matter	Clear, Free of suspended matter	G 001
7	Copper (Cu)	wt ppm	0.1 max	0.02	CB 128
8	Color (APHA)		10max	LT 5	G 011
9	Distillation Range at 760mmHg(97%)		74.5 ~ 79.0°C	74.7 ~ 77.7	G 003
10	Hydrogen Cyanide (HCN)	wt ppm	5 max	2.5	CB 528
11	Inhibitor (MEHQ)	wt ppm	35 ~ 45	38	CB 132
12	Iron (Fe)	wt ppm	0.2 max	0.05	CB 120
13	Non-Volatile Matter	wt ppm	100 max	LT 25	CB 135
14	Oxygen bomb stability	hour	MT 4	MT 4	CB 255
15	Peroxide	wt ppm	0.2 max	LT 0.05	CB 136
16	pH 5% Aqueous Solution		6.0 ~ 7.5	6.8	CB 144
17	Purity	wt %	99.5 min	99.58	Balance
18	Refractive Index (25°C)		1.3882 ~ 1.3892	1.3890	G 046
19	Specific Gravity 25/15.5°C		0.7990 ~ 0.8020	0.8012	ACRN 23
20	Titration Value ml of 0.1N-H ₂ SO ₄ to give pH of 5.0	ml	2 max	LT 0.5	ACRN 21
21	Water	wt %	0.5 max	0.41	CB 142

Certify The Above Statement Of Quality To Be True And Correct.

**L/C NO.& DATE

560LC01212510005, SEP.08.2021

DRAWN UNDER L/C ISSUED BY HDFC BANK LTD.

MARSHALL ANNEXE I, 3RD FLOOR, SHOORJI VALLABHDAS
MARG, NEAR BOMBAY PORT TRUST (BPT), BALLARD PIER,
MUMBAI-400001, INDIA.

Taekwang Industrial Co., LTD.

R. M. Hong

Petrochemical Business Unit CEO