



NANJING HBL ALKYLOL AMINES CO., LTD.

CERTIFICATE OF ANALYSIS 3

INVOICE NO.: W2412021

DATE: December 29, 2024

TO: ARK CO.,LTD
3-5-13, AZUCHIMACHI, CHUO-KU,
OSAKA,JAPAN 541-0052
TEL +81-6-6563-7710
FAX +81-6-6563-7720

CONTRACT NO.: SOHHBC2412021

ORDER NO.: AS-14071

PACKING: 195KGS/DRUM,200KGS/DRUM, 215KGS/DRUM,,FCL

LOT NO.: 240914-1

TEST DATE: 2024.9.14

STANDARD NO.: /

DESCRIPTION OF GOODS: TRIISOPROPANOLAMINE 85%

MANUFACTURER: NANJING HBL ALKYLOL AMINES CO., LTD.

DATE OF MANUFACTURE: 2024.9.14

DATE OF EXPIRY: 2026.9.13

QUANTITY:5.16MTS(24DRUMS)

PROPERTY

ITEMS	MARK	TEST RESULT
LOT NO.		240914-1
APPEARANCE:	COLOURLESS TO LIGHT YELLOW LIQUID	Colourless clear liquid
TRIISOPROPANOLAMINE, WT%:	≥ 85.0	85.1
MONOISOPROPANOLAMINE, WT%:	$(MIPA+DIPA)\% \leq 3.0$	0
DIISOPROPANOLAMINE, WT%:	$(MIPA+DIPA)\% \leq 3.0$	1.5
WATER, WT%:	10.0-15.0%	13.4
Colority(Pt-Co)	< 20	12

RESULT:

CHECK OUT

NANJING HBL ALKYLOL AMINES CO., LTD.



NANJING HBL ALKYLOL AMINES CO., LTD.

CERTIFICATE OF ANALYSIS 2

INVOICE NO.: W2409018

DATE: September 20, 2024

TO: ARK CO.,LTD

3-10-3,NISHITENMA,KITA-KU,

OSAKA,JAPAN 530-0047

TEL +81-6-6809-5970

FAX +81-6-6809-5975

CONTRACT NO.: SOHHBC2409018

ORDER NO.: AS-13585

PACKING: 195KGS/DRUM, 215KGS/DRUM

LOT NO.: 240127-3

TEST DATE: 2024.1.27

STANDARD NO.: /

DESCRIPTION OF GOODS: TRIISOPROPANOLAMINE 85%

MANUFACTURER: NANJING HBL ALKYLOL AMINES CO., LTD.

DATE OF MANUFACTURE: 2024.1.27

DATE OF EXPIRY: 2026.1.26

PROPERTY

ITEMS	MARK	TEST RESULT
LOT NO.		240127-3
APPEARANCE:	COLOURLESS TO LIGHT YELLOW LIQUID	Colourless clear liquid
TRIISOPROPANOLAMINE, WT%:	≥ 85.0	85.3
MONOISOPROPANOLAMINE, WT%:	$(MIPA+DIPA)\% \leq 3.0$	0
DIISOPROPANOLAMINE, WT%:	$(MIPA+DIPA)\% \leq 3.0$	1.5
WATER, WT%:	10.0-15.0%	13.2

RESULT:

CHECK OUT

NANJING HBL ALKYLOL AMINES CO., LTD.

CERTIFICATE OF ANALYSIS 1

INVOICE NO.: 03432724

DATE: January 8, 2024

TO: ARK CO., LTD.

3-10-3,NISHITENMA,KITA-KU,

OSAKA,JAPAN 530-0047

TEL: +81-6-6809-5970

FAX: +81-6-6809-5975

CONTRACT NO.: SOHHBC2312229

ORDER NO.: AS-12368

PACKING: 200KGS/DRUM,215KGS/DRUM, FCL

LOT NO.: 231215-3

TEST DATE: 2023.12.15

STANDARD NO.: /

DESCRIPTION OF GOODS: TRIISOPROPANOLAMINE 85%

MANUFACTURER: NANJING HBL ALKYLOL AMINES CO., LTD.

DATE OF MANUFACTURE: 2023.12.15

DATE OF EXPIRY: 2025.12.14

PROPERTY

ITEMS	MARK	TEST RESULT
LOT NO.		231215-3
APPEARANCE:	COLOURLESS TO LIGHT YELLOW LIQUID	Colourless clear liquid
TRIISOPROPANOLAMINE, WT%:	≥85.0	85.4
MONOISOPROPANOLAMINE, WT%:	(MIPA+DIPA)% ≤3.0	0
DIISOPROPANOLAMINE, WT%:	(MIPA+DIPA)% ≤3.0	1.2
WATER, WT%:	10.0-15.0%	13.4

RESULT:

CHECK OUT

NANJING HBL ALKYLOL AMINES CO., LTD.

CERTIFICATE OF ANALYSIS 2

TO: ARK CO.,LTD
3-10-3,NISHITENMA,KITA-KU,
OSAKA,JAPAN 530-0047
TEL +81-6-6809-5970
FAX +81-6-6809-5975

INVOICE NO.: 03432544

DATE: November 28, 2023

CONTRACT NO.: SOHHBC2311155

ORDER NO.: AS-12160

PACKING: 195KGS/DRUM,200KG/DRUM, 215KGS/DRUM

LOT NO.: 230907-6

TEST DATE: 2023.9.7

STANDARD NO.: /

DESCRIPTION OF GOODS: TRIISOPROPANOLAMINE 85%

MANUFACTURER: NANJING HBL ALKYLOL AMINES CO., LTD.

DATE OF MANUFACTURE: 2023.9.7

DATE OF EXPIRY: 2025.9.6

PROPERTY

ITEMS	MARK	TEST RESULT
LOT NO.		230907-6
APPEARANCE:	COLOURLESS TO LIGHT YELLOW LIQUID	Colourless clear liquid
TRIISOPROPANOLAMINE, WT%:	≥85.0	85.3
MONOISOPROPANOLAMINE, WT%:	(MIPA+DIPA)% ≤3.0	0
DIISOPROPANOLAMINE, WT%:	(MIPA+DIPA)% ≤3.0	1.5
WATER, WT%:	10.0-15.0%	13.2

RESULT:

CHECK OUT

NANJING HBL ALKYLOL AMINES CO., LTD

CERTIFICATE OF ANALYSIS 2

TO: ARK CO.,LTD
3-10-3,NISHITENMA,KITA-KU,
OSAKA,JAPAN 530-0047
TEL +81-6-6809-5970
FAX +81-6-6809-5975

INVOICE NO.: 03275447

DATE: October 9, 2023

CONTRACT NO.: SOHHBC2309190

ORDER NO.: AS-11860

PACKING: 195KGS/DRUM, 215KGS/DRUM

LOT NO.: 230907-6

TEST DATE: 2023.9.7

STANDARD NO.: /

DESCRIPTION OF GOODS: TRIISOPROPANOLAMINE 85%

MANUFACTURER: NANJING HBL ALKYLOL AMINES CO., LTD.

DATE OF MANUFACTURE: 2023.9.7

DATE OF EXPIRY: 2025.9.6

PROPERTY

ITEMS	MARK	TEST RESULT
LOT NO.		230907-6
APPEARANCE:	COLOURLESS TO LIGHT YELLOW LIQUID	Colourless clear liquid
TRIISOPROPANOLAMINE, WT%:	≥85.0	85.3
MONOISOPROPANOLAMINE, WT%:	(MIPA+DIPA)% ≤3.0	0
DIISOPROPANOLAMINE, WT%:	(MIPA+DIPA)% ≤3.0	1.5
WATER, WT%:	10.0-15.0%	13.2

RESULT:**CHECK OUT**

NANJING HBL ALKYLOL AMINES CO., LTD.