



**NANJING HBL INTERNATIONAL CO., LTD.**

**CERTIFICATE OF ANALYSIS**

**INVOICE NO.: 03811423**

**DATE: May 27, 2016**

**TO: ARK CO LTD**

1-9-5 KYUTAROMACHI CHUOH KU OSAKA JAPAN

POSTAL CODE 541 0056

TEL:0081-6 7730 3331

FAX:0081-6 7730 3335

**CONTRACT NO.: SOHHGM1605052**

**ORDER NO.: AS-3860**

PACKING: 195KGS/DRUM, FCL

LOT NO.: 160523

STANDARD NO.: Q/320117 HBLCAHX 01-2013

DESCRIPTION OF GOODS: MONOISOPROPANOLAMINE (MIPA 99%)

MANUFACTURER: NANJING HBL ALKYLLOL AMINES CO., LTD.

DATE OF MANUFACTURE: 2016.5.23

DATE OF EXPIRY: 2018.5.22

**PROPERTY**

<b>ITEMS</b>	<b>MARK</b>	<b>TEST RESULT</b>
APPEARANCE:	COLORLESS TO SLIGHT YELLOW LIQUID	COLOURLESS CLEAR LIQUID.
MONOISOPROPANOLAMINE, WT%:	≥99.0	99.8
DIISOPROPANOLAMINE, WT%:	(DIPA+TIPA)%≤0.5	0.1
TRISOPROPANOLAMINE, WT%:	(DIPA+TIPA)%≤0.5	0
WATER CONTENT, WT%:	≤0.5	0.1
COLOR, APHA:	≤50	10

**RESULT:**

**CHECK OUT**

3860