

# NINGBO LUCKY CHEMICAL INDUSTRY CO., LTD



ADDRESS: NO23,BLDG 3, INNOVATION 128, 818 QIMING  
ROAD YINZHOU, NINGBO, CHINA  
EMAIL: ZXL@LFCC.COM.CN  
TEL & FAX: +86 574 87849999-893  
[WWW.LKCHEM.COM](http://WWW.LKCHEM.COM)

## CERTIFICATE OF ANALYSIS

PRODUCT NAME : TRI ISOPROPANOL AMINE(TIPA) 85%

INVOICE NO.: NBLK-FYKS-210602

PACKAGING : FLEXITANK

EXPIRY DATE : 2023.07.15

BATCH (ORIGIN) : 2021071502

STANDARDS : IN HOUSE

MANUFACTURE DATE : 2021.07.15

QUANTITY : 22800KGS IN A FLEXITANK

TEST ITEMS	SPECIFICATION	ANALYSIS RESULT
APPEARANCE(25°C)	COLORLESS OR PALE YELLOW LIQUID	COLORLESS LIQUID
TRIISOPROPANOLAMINE %	85±1.0	85.08
DIISOPROPANOLAMINE %	≤3.0	0.54
ISOPROPANOLAMINE %	≤3.0	1.03
WATER %	≤15	12.35
OTHER ALCAMINES %	≤3	1.00
FREEZING POINT	3-8°C	CONFORM
BOILING POINT	104-107°C	-
FLASH POINT	≥160°C	CONFORM
VISCOSITY (25°C)	400-500CPS	CONFORM



# NINGBO LUCKY CHEMICAL INDUSTRY CO., LTD



ADDRESS: NO23,BLDG 3, INNOVATION 128, 818 QIMING  
ROAD YINZHOU, NINGBO, CHINA  
EMAIL: ZXL@LFCC.COM.CN  
TEL & FAX: +86 574 87849999-893  
[WWW.LKCHEM.COM](http://WWW.LKCHEM.COM)

## CERTIFICATE OF ANALYSIS

PRODUCT NAME : TRI ISOPROPANOL AMINE(TIPA) 85%

INVOICE NO.: NBLK-FYKS-210602

PACKAGING : FLEXITANK

EXPIRY DATE : 2023.07.15

BATCH (ORIGIN) : 2021071501

STANDARDS : IN HOUSE

MANUFACTURE DATE : 2021.07.15

QUANTITY : 22840KGS IN A FLEXITANK

TEST ITEMS	SPECIFICATION	ANALYSIS RESULT
APPEARANCE(25°C)	COLORLESS OR PALE YELLOW LIQUID	COLORLESS LIQUID
TRIISOPROPANOLAMINE %	85±1.0	85.11
DIISOPROPANOLAMINE %	≤3.0	0.90
ISOPROPANOLAMINE %	≤3.0	0.97
WATER %	≤15	12.49
OTHER ALCAMINES %	≤3	0.53
FREEZING POINT	3-8°C	CONFORM
BOILING POINT	104-107°C	-
FLASH POINT	≥160°C	CONFORM
VISCOSITY (25°C)	400-500CPS	CONFORM

