

Certificate of Analysis

Product name : Triethanolamine 99 (LFG90) SD220

Batch no : T99C240525

Quantity(TO) : 17.600

Manufacturing date : 25.05.2024

Delivery date : 25.05.2024

Issue date : 28.05.2024

Customer name : ARK CO.,LTD.

 Sale order no.
 : 5812006309

 Delivery no.
 : 5850003579

 Customer Po.No.
 : TOC2400723

Sampling date : 25.05.2024 Sampling point : TEA LFG 90% Expiry date : 24.05.2025

Test item	Test Method	Unit	Specification	Result
Triethanolamine	ST-35.99	%wt	88.00 - 92.00	89.73
Water Content	ASTM E203	%wt	8.000 - 12.000	10.020
Colour Pt-Co units	ASTM D5386	mgPt/L	50 Max	21
APPEARANCE	Visual Inspection	-	Clear	nil

X On Spec

Off Spec

Approved by:

Prance kh.

MISS PRANEE KHAEKRAM (For Laboratory Supervisor) Date: May 27, 2024 QA:

HRIEB

ห.จละลัก

MR. SOMPOP HONGSAMAT (Plant Operation Manager) Date: May 28, 2024



Certificate of Analysis

: Triethanolamine 99 (LFG90) SD220 Product name

Batch no : T99C240706 Quantity(TO) : 17.600 Manufacturing date : 06.07.2024 Delivery date : 09.07.2024 Issue date : 11.07.2024 Customer name : ARK CO.,LTD. Sale order no. : 5812006767 Delivery no.

Expiry date

: 5850003964

Customer Po.No. : TOC2400917 Sampling date : 06.07.2024 Sampling point : BTEA

: 05.07.2025

Test item	Test Method	Unit	Specification	Result
Triethanolamine	ST-35.99	%wt	88.00 - 92.00	89.64
Water Content	ASTM E203	%wt	8.000 - 12.000	9.992
Colour Pt-Co units	ASTM D5386	mgPt/L	50 Max	17
APPEARANCE	Visual Inspection	-	Clear	nil

On Spec

Off Spec

Approved by:

W. Sangiam

MR. PIPAT WONGSANGIAM (For Laboratory Supervisor) Date: July 09, 2024

OA:

MR. SOMPOP HONGSAMAT (Plant Operation Manager) Date: July 09, 2024



Certificate of Analysis

Product name : Triethanolamine 99 (LFG90) SD220

Batch no : T99C240813

Quantity(MT) : 17.600

Manufacturing date : 13.08.2024

Delivery date : 13.08.2024

Issue date : 15.08.2024

Sale order no. : 5812007085 Delivery no. : 5850004217

Expiry date

Customer Po.No. : TOC2401113
Sampling date : 13.08.2024
Sampling point : BTEA

: 12.08.2025

Customer mame	. AKK CO.,LID.

Test item	Test Method	Unit	Specification	Result
Triethanolamine	ST-35.99	%wt	88.00 - 92.00	89.69
Water Content	ASTM E203	%wt	8.000 - 12.000	10.076
Colour Pt-Co units	ASTM D5386	mgPt/L	50 Max	2
APPEARANCE	Visual Inspection	-	Clear	nil

X On Spec

Approved by:

Rucha.

MR. PREECHA DAMRONGSUSAKUL (For Laboratory Supervisor) Date: August 14, 2024 QA:

HARUET

น.จลัวส์ร.น

Off Spec

MR. SOMPOP HONGSAMAT (Plant Operation Manager) Date: August 14, 2024



Certificate of Analysis

Product name : Triethanolamine 99 (LFG90) SD220

Batch no : T99C240925
Quantity(TO) : 17.600
Manufacturing date : 25.09.2024
Delivery date : 28.09.2024
Issue date : 30.09.2024
Customer name : ARK CO.,LTD.

Sale order no. : 5812007598 Delivery no. : 5850004524

Customer Po.No. : TOC2401382
Sampling date : 25.09.2024
Sampling point : BTEA
Expiry date : 24.09.2025

Test item	Test Method	Unit	Specification	Result
Triethanolamine	ST-35.99	%wt	88.00 - 92.00	89.49
Water Content	ASTM E203	%wt	8.000 - 12.000	10.104
Colour Pt-Co units	ASTM D5386	mgPt/L	50 Max	18
APPEARANCE	Visual Inspection	-	Clear	nil

X On Spec

Approved by:

MR. PONGPICHA BOONTUN (For Laboratory Supervisor)

Pongpicha B

Date: September 27, 2024

QA:

HARUET

พ.จละจัก

Off Spec

MR. SOMPOP HONGSAMAT (Plant Operation Manager) Date: September 27, 2024



Certificate of Analysis

Product name : Triethanolamine 99 (LFG90) SD220

 Batch no
 :
 T99C241130

 Quantity(TO)
 :
 17.600

 Manufacturing date
 :
 30.11.2024

 Delivery date
 :
 02.12.2024

 Issue date
 :
 04.12.2024

 Customer name
 :
 ARK CO.,LTD.

 Sale order no.
 : 5812008297

 Delivery no.
 : 5850004919

 Customer Po.No.
 : TOC2401770

Sampling date : 30.11.2024 Sampling point : BTEA Expiry date : 29.11.2025

Test item	Test Method	Unit	Specification	Result
Triethanolamine	ST-35.99	%wt	88.00 - 92.00	89.45
Water Content	ASTM E203	%wt	8.000 - 12.000	10.112
Colour Pt-Co units	ASTM D5386	mgPt/L	50 Max	16
APPEARANCE	Visual Inspection	-	Clear	Clear

X On Spec

Off Spec

Approved by:

Akalux. Su

MR. AKALUX SIRIMAS (For Laboratory Supervisor) Date: November 30, 2024 QA:

n haugg

น งสะส์เ

MR. SOMPOP HONGSAMAT (Plant Operation Manager) Date: December 04, 2024