



**PETRONAS**

## CERTIFICATE OF ANALYSIS

Page 1 of 2

### TRIETHANOLAMINE 99% 232 KG STEEL DRUM

Carrier/Vehicle ID	: CRXU 1265229	Material ID	: 72000240
Customer P.O. No.	: QTN-0000003175-1	Customer No.	: 8010000375
Sales Order No.	: 100175109	Batch No.	: 14861M
Delivery Qty	: 73.000	Delivery No.	: 500262789
Delivery Unit	: DR	Inspection Dt.	: 11 MAY 2016

NOTE: THE TEST CHARACTERISTICS AND THEIR UNITS, TOLERANCES AND RESULTS LISTED BELOW WILL VARY DEPENDING ON THE BUSINESS, CUSTOMER & MATERIAL REQUIREMENTS.

Test Characteristics	Results	Unit	Tolerance Limits	Method
TRIETHANOLAMINE	99.4	WTP	99.0 - 100.0	1B-17A-0.1
MONOETHANOLAMINE	0.00	WTP	0.00 - 0.10	1B-17A-0.1
DIETHANOLAMINE	0.1	WTP	0.0 - 0.5	1B-17A-0.1
WATER	0.0	WTP	0.0 - 0.2	1B-17A-0.2
IRON	0	PPM	0 - 10	1B-17A-0.4
COLOR	16	PTCO	0 - 40	1B-17A-0
APPEARANCE	PASS:Clear	-	-	1B-17A-0

This product meets the Product Sales Specification. This result is based on the sample being tested.

Marketed by: **PETRONAS CHEMICALS MARKETING SDN. BHD.(80474 V)**

**GST Registration Number: 001455620096**

Level 15, Tower 1, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur, Malaysia.

Manufactured by: **PETRONAS CHEMICALS DERIVATIVES SDN. BHD.(466586D)**