



A Subsidiary of PTT Global Chemical

TOC Glycol Company Limited

Head Office : 333/1 Energy Complex, Building A,
15th Floor, Vibhavadi Rangsit Road, Chatuchak,
Chatuchak, Bangkok 10900 Thailand.
Tel : +66 (0) 2265 8400
Fax : +66 (0) 2265 8300

Rayong Plant : 9 Sol G12, Hemaraj Eastern Industrial Estate,
Pakorn Songkhroarat Road., Tambon Maptaphut,
Amphoe Mueang Rayong, Rayong 21150, Thailand
Tel : +66 (0) 3899 4000
Fax : +66 (0) 3892 5988

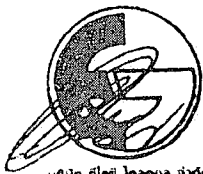
CERTIFICATE OF ANALYSIS

NO. : 1120026199A & 1120026199B
DATE : 9 APRIL 2014

COMMODITY:	DIETHANOLAMINE (DEA)	Batch :	DEAA110314
QUANTITY:	7.70 TONS (35 DRUMS)		
TYPE/SOURCE OF SAMPLE :		Running sample from	
		08-Q3015	
		Sampling on 11.03.2014	
SAMPLE DRAWN AND SUBMITTED BY :		EA Operators	
SAMPLE TESTED AT :		PTT Chemical (Plant I-4) Laboratory, Map Ta Phut,	

The following results were those obtained in the laboratory indicated above.
The tests were witnessed by EA staff.

ITEMS	UNIT	TEST METHOD	RESULTS
Diethanolamine	% wt	ST-35.213-00	99.66
Monoethanolamine	% wt	ST-35.213-00	0.01
Triethanolamine	% wt	ST-35.213-00	0.12
Water Content	% wt	ST-31.53-02	0.064
Colour Pt-Co unit	mg P/L	Inhouse Method Base on ASTM D1209-00	3.00
Equivalent Weight	g/equiv.	ST-5.5	105.08



บริษัท โทซี โกล จำกัด
TOC Glycol Company Limited

**TOC GLYCOL COMPANY LIMITED
BY MANUFACTURER**