

## Certificate of Analysis

Commodity Name: Diethylene Triamine Penta(Methylene Phosphinic Acid)  
 (DTPMPA)

Invoice No.: 160114-BR-3856

Date: Feb 25,2016

Batch No.: 20160130

Batch Size: 6 MTS

Manufacturing Date: 2016/01

Expiry Date: 2018/01

INDEX	STANDARD	TEST RESULT
Appearance	Brown transparent liquid	Brown transparent liquid
Active content	50% min .	50.64%
Phosphorous acid(as PO3)	3.0% Max	0.674%
Chloride as Cl	12-17%	14.00%
Iron (as Fe) ppm	35Max	2.47
PH.	2.0 Max	1.54
Density(20C) g/cm3	1.35-1.45	1.397