

## Certificate of Analysis

*Commodity Name: AMINO TRI(METHYLENE PHOSPHONIC ACID)(ATMP)*

*Invoice No.: 160101-BR-3843*

*Date: Jan 27,2016*

*Batch No.: 0160121*

*Batch Size: 8 MTS*

*Manufacturing Date: 2016/01*

*Expiry Date: 2018/01*

INDEX	STANDARD	TEST RESULT
Appearance	colorless or pale yellow transparent liquid	pale yellow transparent liquid
Active content (ATMP)%	50% min	50.56%
Phosphorous acid (as PO <sub>3</sub> <sup>3-</sup> )%	3.5max	1.74
Phosphorous acid (as PO <sub>4</sub> <sup>3-</sup> )%	0.8max	0.25
PH (1% solution)	2.0max	1.66
Density (20°C)g/cm <sup>3</sup>	1.31-1.35	1.32
Fe (iron) ppm	10max	7.33
Color (APHA)	40max	31.1
Chloride (as Cl-)%	1.0max	0.2
Identification		Qualified