CERTIFICATE OF ANALYSIS

1-Hydroxyethylidene-1,1-Diphosphonic Acid

Chemical name: HEDP Batch No: 20220612

Items of Analysis	Standard Spec.	Analysis Result
Appearance	Clear,water-white to pale yellow solution	Clear,water-white to pale yellow solution
Total Active Acid,%	58.0-62.0	60.10%
Phosphorous Acid(as PO ₃ ³⁻),%	2.0 Maximum	1.30%
Phosphoric Acid(as PO ₄ ³⁻) ,%	0.8 Maximum	0.66%
Chloride(as Cl), %	1.0 Maximum	<1.0%
Specific gravity (at 20℃)	1.41-1.46	1.44
pH,(1% solution 25°C)	1.0-2.0	1.76
Ca ²⁺ Sequestration, (as CaCO ₃ mg/g)	450 Minimum	520mg/g