

### Certificate of Analysis

**Product: Hydrochloric Acid 37% Solution**

**Item Number: HCLS37**

**Grade: Semiconductor**

**Lot Number: 230222**

**Manufacture Date: 02/22/2023**

**Expiration Date: 02/21/2025**

**Country of Origin: United States**

Tested Property	Specification	Analysis
Appearance	Colorless to slightly yellow, free from sus. matter/sediment	Pass
Assay	36.5 - 38%	37.51
Color (APHA)	10	5
Residue after Ignition	5 ppm	1
Bromide (Br)	0.005%	<0.005
Sulfate (SO <sub>4</sub> )	1 ppm	0.2
Sulfite (SO <sub>3</sub> )	1 ppm	0.2
Extractable Organic Substances	5 ppm	<5
Free Chlorine (Cl)	1 ppm	<1
Ammonium (NH <sub>4</sub> )	3 ppm	1
Arsenic (As)	0.01 ppm	0.0001
Heavy Metals (as Pb)	1 ppm	0.2
Iron (Fe)	0.2 ppm	0.05

#### [Hydrochloric Acid 37% Solution](#)

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