

**Certificate of Analysis**

**Product: Hydrochloric Acid 37% Solution, Semiconductor Grade**

**Item Number: HCLS37**

**CAS#: 7647-01-0**

**Grade: ACS**

**Lot Number: 5001307/1.1**

**Manufacture Date: 02/28/2024**

**Expiration Date: 05/19/2027**

**Country of Origin: United States**

<b>Tested Property</b>	<b>Specification</b>	<b>Analysis</b>
Assay	36.5 - 38%	37.46
Color (APHA)	Max 10	<10
Residue after Ignition	Max 5 ppm	<5
Bromide (Br)	Max 0.005%	<0.005
Sulfate (SO <sub>4</sub> )	Max 1 ppm	<1
Sulfite (SO <sub>3</sub> )	Max 1 ppm	<1
Free Chlorine (Cl)	Max 1 ppm	<1
Ammonium (NH <sub>4</sub> )	Max 3 ppm	1
Arsenic (As)	Max 0.01 ppm	<0.01
Heavy Metals (as Pb)	Max 1 ppm	<1
Iron (Fe)	Max 0.2 ppm	<0.2

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Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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