

**SRI LANKA STANDARD 603 : 2016**  
UDC 661.419

**SPECIFICATION FOR  
HYDROCHLORIC ACID**  
(First Revision)

**SRI LANKA STANDARDS INSTITUTION**

**Sri Lanka Standard**  
**SPECIFICATION FOR HYDROCHLORIC ACID**  
*(First Revision)*

**SLS 603 : 2016**

**Gr. 10**

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## FOREWORD

This Standard was approved by the Sectorial Committee on Chemical and Polymer Technology and was authorized for adoptions and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2016-03-23.

This Standard was first published in 1983 and this First Revision introduces the Chromatographic and Spectroscopic grades, limits for heavy metals of cadmium, mercury and chromium and alternative method for determination of metals and hydrochloric acid content. The limits for hydrochloric acid content of Analytical Reagent grade has been changed and additional marking requirements have been included.

This Specification covers five grades of hydrochloric acids, i.e. Technical grade, General Purpose Reagent (GPR)/ Laboratory Reagent Grade (LRG), Analytical Reagent (AR), Spectroscopic and Chromatographic grade. Technical grade acid is intended for use in industrial purposes such as pickling of iron, water purification, brine processing and for production of ferric chloride. Purity of GPR grade acid is higher than the technical grade acid and it could be used in industries and laboratories. Purity of AR grade acid is higher than Technical and GPR grades and is intended for use in analytical work where a high degree of purity is required. Chromatographic and Spectroscopic grades are the purest grades and Chromatographic grade is intended for use in HPLC and GC. Spectroscopic grade is intended for use in Atomic Absorption Spectroscopy (AAS), Spectroscopy and UV Spectroscopy.

For the purpose of deciding whether a particular requirement of this Specification is complied with, the final value, observed or calculated, expressing the results of a test or analysis, shall be rounded off in accordance with **SLS 102**. The number of significant places retained in the rounded off value should be the same as that of the specified value in this Specification.

All values in this Specification are given in SI units.

In the preparation of this Specification, the assistance derived from the following publications are gratefully acknowledged:

SS	8	Specification for Hydrochloric acid (Technical)
IS	265	Hydrochloric acid – Specification
JIS K	8180	Hydrochloric acid (Reagent)

## 1 SCOPE

**1.1** This Specification prescribes the requirements, test methods and sampling procedure for hydrochloric acid used in industries and laboratories.

**1.2** It does not specify requirements for hydrochloric acid intended for pharmaceutical use.