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# International Standard



# 6353/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

ANSI Internat Doc Sect

## Reagents for chemical analysis — Part 1 : General test methods

*Réactifs pour analyse chimique — Partie 1 : Méthodes générales d'essai*

First edition — 1982-05-15

JUN 08 1982

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6353/1 was developed by Technical Committee ISO/TC 47, *Chemistry*, and was circulated to the member bodies in May 1980.

It has been approved by the member bodies of the following countries :

Belgium	Hungary	Poland
Brazil	India	Romania
China	Italy	South Africa, Rep. of
Czechoslovakia	Korea, Rep. of	Switzerland
Egypt, Arab Rep. of	Mexico	United Kingdom
France	Netherlands	
Germany, F. R.	Philippines	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia  
USSR

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# Reagents for chemical analysis — Part 1 : General test methods

## 1 Scope and field of application

This part of ISO 6353 specifies general test methods for verifying the compliance of reagents for chemical analysis with the specifications given in other parts of this International Standard.

## 2 References

ISO 31, *Quantities, units and symbols*.

ISO 758, *Liquid chemical products for industrial use — Determination of density at 20 °C*.

ISO 759, *Volatile organic liquids for industrial use — Determination of dry residue after evaporation on a water bath — General method*.

ISO 760, *Determination of water — Karl Fischer method (General method)*.

ISO 918, *Volatile organic liquids for industrial use — Determination of distillation characteristics — General method*.<sup>1)</sup>

ISO 1392, *Determination of crystallizing point — General method*.

ISO 2211, *Liquid chemical products — Measurement of colour in Hazen units (platinum-cobalt scale)*.

ISO 2718, *Standard layout for a method of chemical analysis by gas chromatography*.

ISO 6685, *Chemical products for industrial use — General method for determination of iron content — 1,10-Phenanthroline spectrophotometric method*.<sup>2)</sup>

1) At present at the stage of draft. (Revision of ISO/R 918.)

2) At present at the stage of draft.

## 3 General information

**3.1** The nomenclature for chemical compounds used in this International Standard in general conforms to the rules published by the International Union of Pure and Applied Chemistry (IUPAC).

**3.2** In all reactions or operations described, use only distilled or deionized water. Carbon dioxide-free water, if required, may be prepared by boiling water of the above grade for about 10 min and protecting from the atmosphere during cooling and storing.

**3.3** Unless otherwise stated, solutions are aqueous and, dilutions shall be made with water.

**3.4** The symbol “%” indicates percentage by mass (*m/m*), unless otherwise stated.

**3.5** The reference number of a general test method, abbreviated GM, as given in the individual tests, refers to the number of the method in clause 5.

**3.6** The reagents used shall conform to the specifications in ISO 6353. In the absence of such a specification, reagents of suitable analytical grade shall be used.

NOTE — Reagents specified in this International Standard are identified R ..., e. g. sodium chloride is R 31.

**3.7** Unless otherwise stated, values for density refer to the density at 20 °C.

**3.8** Temperatures are expressed in degrees Celsius (°C).