International Standard



5280

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

Xylene for industrial use — Specification

Xylène à usage industriel - Spécifications

First edition - 1979-07-01

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 5280:1979 https://standards.iteh.ai/catalog/standards/sist/30935ba9-07e8-4beb-8cdf-903713e6bf93/iso-5280-1979

UDC 547.534.2

 $\textbf{Descriptors}: aromatic \ hydrocarbons, \ \ xylenes, \ \ physical \ properties, \ \ specifications.$

Ref. No. ISO 5280-1979 (E)

5280-1979 (E)

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 5280 was developed by Technical Committee ISO/TC 78, Aromatic hydrocarbons, and was circulated to the member bodies in October 1977. (standards.iteh.ai)

It has been approved by the member bodies of the following countries 070

https://standards.iteh.ai/catalog/standards/sist/30935ba9-07e8-4beb-8cdf-

Australia Austria

Hungary India

903713**E051993**so-5280-1979

Brazil

Korea, Rep. of

Romania

Bulgaria Mexico South Africa, Rep. of Turkev

Czechoslovakia

Netherlands

United Kingdom

Egypt, Arab Rep. of

Philippines

USSR

Germany, F. R.

Poland

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

> France Italy

Xylene for industrial use — Specification

iTeh STANDARD PREVIEW

WARNING — Xylene is flammable and toxic by inhalation, ISO 5274, Aromatic hydrocarbons — Acid-wash test.

ingestion or skin absorption.

ISO 5280:197 SO 5275, Aromatic hydrocarbons - Test for presence of 1 SCOPE AND FIELD OF APPLICATION OCCUPATION OCCUPATION

This International Standard specifies requirements for xylene suitable for industrial purposes.

It is applicable to materials which consist essentially of xylene isomers $[C_6H_4.(CH_3)_2]$ and ethylbenzene $(C_6H_5.C_2H_5).$

NOTE - For some purposes it may be desirable that the interested parties agree on the composition of the xylene.

2 REFERENCES

ISO 1523, Paints and varnishes - Determination of flashpoint - Closed cup method.

ISO 2160, Petroleum products – Corrosiveness to copper – Copper strip test.

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

ISO 3679, Paints and varnishes - Rapid test for determination of flash point.

ISO 4626, Volatile organic liquids - Determination of boiling range.

903713e6bf93/iso-5280 5276, Aromatic hydrocarbons — Test for neutrality.

ISO 5277, Aromatic hydrocarbons - Determination of residue on evaporation. 1)

ISO 5281, Aromatic hydrocarbons - Determination of density at 20 °C.

ISO 6271, Clear liquids - Estimation of colour by the platinum-cobalt scale. 1)

3 REQUIRED CHARACTERISTICS

The material shall conform to the characteristics shown in the table.

NOTE - Until such time as the test methods have been published as International Standards, the methods used shall be the subject of agreement between the interested parties.

4 SAMPLING2)

Take a representative sample of not less than 1 000 ml from the bulk of the material.

¹⁾ At present at the stage of draft.

²⁾ The sampling of xylene and other aromatic hydrocarbons will form the subject of ISO 1995.

TABLE - Required characteristics

Characteristic	Requirement	Test method
Clarity	Clear and free from separated impurities	Visual inspection
Colour	Not darker than the 20 unit standard ¹⁾	ISO 2211 or 6271
Density at 20 °C	Not lower than 0,855 g/ml or higher than 0,870 g/ml	ISO 5281
Undissolved water at 20 °C	Absent	Visual inspection by transmitted light
Initial boiling point	Not lower than 137 °C	ISO 4626
Dry point	Not higher than 143 °C	ISO 4626
Acid-wash test	Acid layer not darker in colour than the standard solution containing 1,0 g of potassium dichromate in 1 000 ml of dilute acid solution	ISO 5274
Total sulphur content	Not greater than 10 mg/kg	A suitable method of test will form the subject of ISO 5282
Freedom from objectionable sulphur compounds	Not greater than a slight tarnish equivalent to the No. 1 copper strip	ISO 2160
Mercaptans (thiols)	iAbsenta STANDARD PREV	ISO 5275
Neutrality	Neutral (standards.iteh.ai)	ISO 5276
Residue on evaporation	Not greater than 5 mg/100 ml	ISO 5277
Flash point	If required, to be agreed between the interested parties	ISO 1523 or 3679

¹⁾ The strongest standard matching solution required is that with a colour of 50 units. Only 1 000 ml of the standard colorimetric solution need, therefore, be prepared.