INTERNATIONAL STANDARD 2499

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

*iso*Butyl methyl ketone for industrial use – List of methods of test

Isobutyl-méthyl-cétone à usage industriel – Liste des méthodes d'essais

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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 2499 was edrawn up by Technical Committee VIEW ISO/TC 47, *Chemistry*, and circulated to the Member Bodies in September 1971. (standards.iten.ai)

It has been approved by the Member Bodies of the following countries :

		<u>ISO 2499:1974</u>
Austria	felandstandards.iteh.ai/ca	taloSwitzerlandsist/9de14297-871c-49f3-a146-
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Egypt, Arab Rep. of	Netherlands	United Kingdom
France	New Zealand*	U.S.A.
Germany	Romania	U.S.S.R.
Hungary	South Africa, Rep. of	
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* Disapproved clause 4.

No Member Body expressed disapproval of the document.

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isoButyl methyl ketone for industrial use — List of methods of test

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies methods of test for isobutyl methyl ketone (4-methylpentan-2-one) $[CH_3COCH_2CH(CH_3)_2]$ for industrial use.

from the bulk, in a clean, dry, dark coloured glass-stoppered bottle of such a size that it is nearly filled by the sample.

If it is necessary to seal this bottle, care shall be taken to avoid the risk of contamination.

2 REFERENCES

(standards.i

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teh.ai) 4 DETERMINATION OF DISTILLATION CHARAC-ISO/R 758, Method for the determination of density of liquids at 20 °C. ISO 2499:197

ISO/R 759, Method for thes determination of aresidue on ds/sist Use the method specified in ISO/R 918 subject to the following modifications appropriate for isobutyl methyl evaporation on a water bath. 6e455efd50a8/iso-24 ketone

ISO/R 760, Determination of water by the Karl Fischer method.

ISO/R 918, Test method for distillation (distillation yield and distillation range).

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

ISO 2501, Methyl ethyl ketone, isobutyl methyl ketone and isoamyl ethyl ketone for industrial use - Determination of alcoholic impurities - Volumetric method.

ISO 2887, secButyl alcohol, methyl ethyl ketone, isobutyl methyl ketone, isoamyl ethyl ketone, diacetone alcohol and hexylene glycol for industrial use - Determination of acidity to phenolphthalein - Volumetric method.

3 SAMPLING

Follow the principles given in ISO ... 1). Attention is drawn to the following recommendation : place the laboratory sample, representative of the material taken 4.1 Thermometer (See 3.2 in ISO/R 918)

Use a thermometer conforming to the requirements of ISO/R 918, with a scale including the range 100 to 150 °C or some other suitable range.

4.2 Distillation (See 6.1 in ISO/R 918)

The interval before the first drop of distillate falls from the end of the condenser shall be 10 to 15 min.

4.3 Correction to be applied to the temperatures (See 7.2 in ISO/R 918)

The correction is equal to

0,045
$$(760 - \rho_1)$$
 °C
or 0,034 $(1\ 013 - \rho_2)$ °C

where

 p_1 is the barometric pressure in millimetres of mercury;

 p_2 is the barometric pressure in kilopascals²).

5 DETERMINATION OF DENSITY AT 20 °C

Use the method specified in ISO/R 758.

6 DETERMINATION OF RESIDUE ON EVAPORATION ON A WATER BATH

Use the method specified in ISO/R 759.

7 DETERMINATION OF WATER CONTENT

Use the ketone modification of any of the methods specified in ISO/R 760.

8 MEASUREMENT OF COLOUR

Use the method specified in ISO 2211.

9 DETERMINATION OF ALCOHOLIC IMPURITIES

Use the method specified in ISO 2501.

10 DETERMINATION OF ACIDITY TO PHENOL-PHTHALEIN

Use the method specified in ISO 2887.

11 TEST REPORT

The test report shall include the following particulars in relation to each test :

- a) the reference of the method used;
- b) the results and the method of expression used;

c) any unusual features noted during the determination;

d) any operation not included in this International Standard or the documents to which reference is made, or regarded as optional.

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