

Testing of ethanol for industrial use —

Part 5: Method of test for miscibility with water

NOTE It is recommended that this Part be read in conjunction with the information given in the “*General introduction*” published separately as BS 6392-0.

ICS 71.080.60

Foreword

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This Part of BS 6392 is technically equivalent to ISO 1388 “*Ethanol for industrial use — Methods of test*” Part 6 “*Test for miscibility with water*”, published in 1981 by the International Organization for Standardization (ISO).

For ease of production, the text of ISO 1388-6:1981, with the omission of the Annex, has been used for this British Standard. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

This standard describes a method only and should not be used as a specification defining limits of purity. Reference to the standard should indicate that the method of test used is in accordance with BS 6392-5.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, page 1 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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1 Scope and field of application

This Part of BS 6392 describes a test for miscibility with water of ethanol for industrial use.

2 Principle

Addition of water to a test portion, under specified conditions, and examination for opalescence.

3 Reagent

During the test, use only distilled water or water of equivalent purity.

4 Apparatus

Ordinary laboratory apparatus, and

4.1 *Two matched Nessler cylinders*, of capacity 100 ml.

5 Procedure

5.1 Test portion

Take 5 ml of the laboratory sample or a different volume agreed between the interested parties.

5.2 Test

Place the test portion (**5.1**) in one of the Nessler cylinders (**4.1**), and dilute with water to the 100 ml mark. Mix and adjust the temperature to about 20 °C. Place 100 ml of water in the other Nessler cylinder.

Examine the cylinder containing the test solution vertically for opalescence, against a black background with side illumination, using the second Nessler cylinder containing water as the standard.

6 Expression of results

Report the dilution-ratio of the test portion and the presence or absence of opalescence.

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