

Specifications for Glycerol

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Cooperating organizations

The Chemicals Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Association of Fatty Acid Distillers*
- British Tar Industry Association
- Chemical Industries Association*
- Chemical Society, Analytical Division
- Consumer Standards Advisory Committee of BSI
- Department of Health and Social Security
- Department of Industry (Laboratory of the Government Chemist)
- Fertiliser Manufacturers' Association Ltd
- Hydrocarbon Solvents Association
- Ministry of Agriculture, Fisheries and Food*
- Ministry of Defence*
- National Sulphuric Acid Association
- Paintmakers' Association of Great Britain Ltd.
- Royal Institute of Public Health and Hygiene
- Soap and Detergent Industry Association*
- Standardization of Tar Products Tests Committee

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

- British Resin Manufacturers' Association
- Food Manufacturers' Federation Incorporated
- Oil and Colour Chemists' Association
- Overseas Development Administration, Tropical Products Institute
- Transparent Cellulose Wrapping Committee
- United Kingdom Glycerine Producers' Association

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Executive Board and comes into effect on 30 November 1979

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

Amd. No.	Date of issue	Comments
3398	October 1980	Indicated by a sideline in the margin

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Foreword

These British Standards were first published, under the direction of the Chemical Standards Committee, in 1955 and revised in 1964. In the present revision the general title has been changed to "Specifications for glycerol" by the omission of the obsolete term "(glycerine)", the title of BS 2622 has been changed to "Hydrolyser crude glycerol" and that of BS 2624 to "Dynamite grade glycerol".

The methods of sampling and test which formed a series of appendices to the specifications in earlier editions have been revised and are published as separate Parts of a new multipart BS 5711 "Methods of sampling and test for glycerol", in order to facilitate revision and to make use, wherever possible, of the International Standards resulting from the work carried out by Technical Committee 47, Chemistry, of the International Organization for Standardization (ISO) in which the United Kingdom has participated.

The specifications and test methods have been brought up to date and the main changes are as follows.

- a) The requirement of a maximum limit for the non-volatile organic residue of the crude grades has been replaced by a maximum limit for the "Matter (Organic) Non-Glycerol (MONG)". Experience gained since the previous revision has confirmed the expectation that MONG would give a better indication of organic impurities than the non-volatile residue,
- b) For the refined grades, the term "specific gravity" has been replaced by the preferred term "relative density" and the reference temperatures have been changed from 15 °C/15 °C to 20 °C/20 °C.
- c) The requirement limiting the maximum water content of dynamite grade glycerol has been omitted.
- d) A maximum value for the alkalinity and acidity of chemically pure glycerol has been specified in place of neutrality to litmus.
- e) The requirements limiting the copper and iron contents of chemically pure glycerol have been replaced by a limiting value for total heavy metals.
- f) The silver diethyldithiocarbamate photometric method for determination of arsenic has been substituted for the method that compares the depth of colour produced on a mercuric chloride paper with a reference stain.
- g) The following additional test methods have been included:
 - 1) determination of total heavy metals content;
 - 2) assessment of odour.
- h) The method for determination of total residue at 160 °C and the calculation of non-volatile organic residue have been deleted.

The Solvents in Food Regulations 1967 specify requirements for glycerol for use in foodstuffs. They are being revised at the time of publication of this edition of BS 2621-5 and it is expected that they will become identical with the corresponding EEC Directive. When the new Regulations are published, any necessary minor changes in this British Standard will be made by amendment.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

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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.