BS 5711-6: 1979 ISO 2098:1972

Methods of

Sampling and test for glycerol —

Part 6: Determination of ash: gravimetric method

[ISO title: Glycerols for industrial use — Determination of ash — $Gravimetric\ method$]

NOTE It is recommended that this Part of BS 5711 be read in conjunction with the general information given in BS 5711-0 "General introduction", issued separately.

UDC 661.188.1:547.426.1:543.822



National foreword

This Part of BS 5711 is identical with ISO 2098 "Glycerols for industrial use— Determination of ash—Gravimetric method".

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.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, an inside back cover 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.

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

© BSI 11-1999

The following BSI references relate to the work on this standard:
Committee reference CIC/6
Draft for comment 75/53579 DC

ISBN 0 580 10987 9

Amendments issued since publication

Amd. No.	Date of issue	Comments

Contents

		Page
Na	tional foreword	Inside front cover
1	Scope and field of application	1
2	Reference	1
3	Principle	1
4	Apparatus	1
5	Sampling	1
6	Procedure	1
7	Expression of results	1
8	Test report	1
Publications referred to		Inside back cover

© BSI 11-1999

 $\it ii$ $\it blank$

1 Scope and field of application

This International Standard specifies a gravimetric method for the determination of the ash of glycerols for industrial use. This method is a conventional one

2 Reference

ISO 2096, Glycerols for industrial use — Methods of sampling.

3 Principle

Combustion of the test portion, ignition of the organic matter and weighing of the inorganic residue.

4 Apparatus

Ordinary laboratory apparatus and

4.1 Platinum dish, 70 to 90 mm diameter and 40 to 50 mm high.

4.2 *Muffle furnace*, capable of being controlled at 750 ± 10 °C.

5 Sampling

Prepare the laboratory sample as described in ISO 2096.

6 Procedure

6.1 Test portion

Heat the dish (4.1) for a few minutes in the furnace (4.2) regulated at 750 ± 10 °C, cool it to room temperature in a desiccator and weigh it to the nearest 0.001 g.

Then weigh into the tared dish, to the nearest 0.01 g, 5 to 100 g of the laboratory sample according to the expected amount of ash (from greater than 1 % to less than 0.01 %).

6.2 Determination

Gently heat the dish (4.1) containing the test portion (6.1), over a small flame until the vapours are ignited. Turn off the heat and allow the glycerol to burn until a carbonaceous mass is obtained. After cooling for 1 to 2 min, place the dish (4.1), for 10 min, in the furnace (4.2) regulated at 750 ± 10 °C.

Cool the dish and contents in a desiccator and then weigh them to the nearest 0.001 g.

7 Expression of results

Ash is given, as a percentage by mass, by the formula:

$$\frac{m_2 - m_1}{m_3 - m_1} \times 100$$

where

 m_1 is the mass, in grams, of the empty dish (4.1):

 m_2 is the mass, in grams, of the dish containing the ash;

 m_3 is the mass, in grams, of the dish containing the test portion.

Express the results to

- three decimal places for ash less than 0.01 %;
- two decimal places for ash between 0.01 and 1 %;
- one decimal place for ash greater than 1 %.

8 Test report

The test report shall include the following particulars:

- 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 ISO document to which reference is made, or regarded as optional.

© BSI 11-1999

blank

Publications referred to

See Part 0 "General introduction".

BS 5711-6: 1979 ISO 2098:1972

BSI — British Standards Institution

BSI is the independent national body responsible for preparing British Standards. It presents the UK view on standards in Europe and at the international level. It is incorporated by Royal Charter.

Revisions

British Standards are updated by amendment or revision. Users of British Standards should make sure that they possess the latest amendments or editions.

It is the constant aim of BSI to improve the quality of our products and services. We would be grateful if anyone finding an inaccuracy or ambiguity while using this British Standard would inform the Secretary of the technical committee responsible, the identity of which can be found on the inside front cover. Tel: 020 8996 9000. Fax: 020 8996 7400.

BSI offers members an individual updating service called PLUS which ensures that subscribers automatically receive the latest editions of standards.

Buying standards

Orders for all BSI, international and foreign standards publications should be addressed to Customer Services. Tel: 020 8996 9001. Fax: 020 8996 7001.

In response to orders for international standards, it is BSI policy to supply the BSI implementation of those that have been published as British Standards, unless otherwise requested.

Information on standards

BSI provides a wide range of information on national, European and international standards through its Library and its Technical Help to Exporters Service. Various BSI electronic information services are also available which give details on all its products and services. Contact the Information Centre. Tel: 020 8996 7111. Fax: 020 8996 7048.

Subscribing members of BSI are kept up to date with standards developments and receive substantial discounts on the purchase price of standards. For details of these and other benefits contact Membership Administration. Tel: 020 8996 7002. Fax: 020 8996 7001.

Copyright

Copyright subsists in all BSI publications. BSI also holds the copyright, in the UK, of the publications of the international standardization bodies. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means – electronic, photocopying, recording or otherwise – without prior written permission from BSI.

This does not preclude the free use, in the course of implementing the standard, of necessary details such as symbols, and size, type or grade designations. If these details are to be used for any other purpose than implementation then the prior written permission of BSI must be obtained.

If permission is granted, the terms may include royalty payments or a licensing agreement. Details and advice can be obtained from the Copyright Manager. Tel: 020 8996 7070.

BSI 389 Chiswick High Road London W4 4AL