

Methods of analysis of Fats and fatty oils —

Part 2: Other methods —

Section 2.1 Determination of water by the Karl Fischer method

IMPORTANT NOTE: It is essential that BS 684-0.1 and BS 684-0.2 (BS EN ISO 661), which are published separately, be read in conjunction with this Section.

ICS 67.200.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee AW/11, Animal and vegetable fats and oils, upon which the following bodies were represented:

- Association of Public Analysts
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Feed Fat Association
- FOSFA International
- International Federation of Inspection Agencies
- Lard Association
- Leatherhead Food Research Association
- Margarine and Shortening Manufacturers' Association
- Ministry of Agriculture, Fisheries and Food
- National Edible Oil Distributors Association
- Natural Resources Institute
- Seed Crushers' and Oil Processors' Association
- Soap and Detergent Industry Association
- Society of Chemical Industry
- Tropical Growers' Association
- United Kingdom Renderers' Association Ltd.

This British Standard, having been prepared under the direction of the Consumer Products and Services Sector Board, was published under the authority of the Standards Board and comes into effect on 15 December 1996

© BSI 11-1998

First published October 1976
Second edition 1996

The following BSI references relate to the work on this standard:
Committee reference AW/11
Draft for comment 89/55541 DC

ISBN 0 580 26610 9

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
1 Scope	1
2 Normative references	1
3 Definition	1
4 Principle	1
5 Reagents	1
6 Apparatus	1
7 Sampling	1
8 Preparation of test sample	1
9 Procedure	1
10 Expression of results	2
11 Precision	2
12 Test report ²	
Annex A (informative) Preparation of Karl Fischer reagent containing pyridine	3
Annex B (informative) Information on the use of the coulometric method	3
Annex C (informative) Results of interlaboratory test	4
Annex D (informative) Bibliography	5
Table C.1	4
List of references	Inside back cover

National foreword

This Section of BS 684 has been prepared by Technical Committee AW/11 and is identical with ISO 8534:1996 *Animal and vegetable fats and oils — Determination of water content — Karl Fischer method*, published by the International Organization for Standardization (ISO) and in the preparation of which the United Kingdom played a full part. It is a revision of BS 684-2.1:1976 which is withdrawn, and from which it differs in that a non-pyridine containing reagent is allowed. It also differs in that precision data from an international collaborative study has been included.

Cross-references

International standard	Corresponding British Standard
Normative	
ISO 661:1989	BS EN ISO 661:1995 <i>Animal and vegetable fats and oils. Preparation of test sample</i>
ISO 3696:1987	BS EN ISO 3696:1995 <i>Water for analytical laboratory use. Specification and test methods</i>
Informative	
ISO 5555:1991	BS EN ISO 5555:1995 <i>Animal and vegetable fats and oils. Sampling</i>
ISO 5725:1986 ¹⁾	BS 5497 <i>Precision of test methods</i> Part 1:1987 <i>Guide for the determination of repeatability and reproducibility for a standard test method by inter-laboratory tests</i>

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 to 6, 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.

¹⁾ ISO 5725:1986, to which informative reference is made in the text, has been superseded by ISO 5725-1:1994, ISO 5725-2:1994, ISO 5725-3:1994, ISO 5725-4:1994 and ISO 5725-6:1994 which are identical with BS ISO 5725 *Accuracy (trueness and precision) of measurement methods and results*, BS ISO 5725-1:1994 *General principles and definitions*, BS ISO 5725-2:1994 *Basic method for the determination of repeatability and reproducibility of a standard measurement method*, BS ISO 5725-3:1994, *Intermediate measures of the precision of a standard measurement method*, BS ISO 5725-4:1994 *Basic method for the determination of the trueness of a standard measurement method*, and BS ISO 5725-6:1994 *Use in practice of accuracy values*.