



BSI Standards Publication

Foodstuffs — Determination of water activity

National foreword

This British Standard is the UK implementation of ISO 18787:2017. It supersedes BS ISO 21807:2004, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AW/34, Food Technical Committee Chairmen.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2021
Published by BSI Standards Limited 2021

ISBN 978 0 539 20016 4

ICS 67.050

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

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2018.

Amendments/corrigenda issued since publication

Date	Text affected
30 November 2021	Correction to supersession details in national foreword

INTERNATIONAL STANDARD

ISO
18787

First edition
2017-11-30

Foodstuffs — Determination of water activity

*Produits agricoles et alimentaires — Détermination de
l'activité de l'eau*



Reference number
ISO 18787:2017(E)
Documents
Document Sharing Hub
© ISO 2017



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Measurement principles	2
5 Apparatus	2
5.1 Water activity measurement apparatus	2
6 Reagents	3
6.1 Salts	3
6.2 Standard solutions	3
7 Sampling	3
8 Procedure	4
8.1 Sample preservation	4
8.2 Sample preparation	4
8.3 Test portion	4
8.4 Storage before measurement (optional)	4
8.5 Measurement	5
8.6 Calibration, adjustment and verification	5
9 Calculation and expression of results	5
10 Precision	6
10.1 Repeatability	6
10.2 Reproducibility	6
11 Test report	6
Annex A (normative) Water activity of saturated salt solutions at 25 °C	7
Annex B (informative) Interlaboratory studies	8
Bibliography	9