
**Animal and vegetable fats and oils —
Determination of conventional mass
per volume (litre weight in air) —
Oscillating U-tube method**

*Corps gras d'origines animale et végétale — Détermination de la
masse volumique conventionnelle (poids du litre dans l'air) —
Méthode du tube en U oscillant*

Sample Document

get full document from standards.iteh.ai



Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

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
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus	2
6 Reagents	2
7 Sampling	2
8 Preparation of the test sample and test portion	2
9 Procedure	3
9.1 Apparatus preparation.....	3
9.2 Apparatus calibration.....	4
9.3 Measurement.....	4
10 Calculation	4
11 Precision	5
11.1 Interlaboratory test.....	5
11.2 Repeatability limit, r	5
11.3 Reproducibility limit, R	5
12 Test report	5
Annex A (informative) Interlaboratory test	6
Bibliography	8

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

get full document from standards.iteh.ai

Introduction

The conventional mass per volume (“litre weight in air”, sometimes called “apparent density” or “conventional density”) is an important parameter for the shipping of oils and fats. It is used to convert the dipped volume of oil in a tank into the mass of oil in the tank and is thus usually measured at loading and discharge of a ship. The manual method (see ISO 6883) uses a pyknometer; a method which requires a skilled technician to perform it correctly. The automatic method is simpler to carry out and temperature control might also be easier.

Sample Document

get full document from standards.iteh.ai