ISO 18363-2:2018 (E)

Animal and vegetable fats and oils — Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS — Part 2: Method using slow alkaline transesterification and measurement for 2-MCPD, 3-MCPD and glycidol

Contents

		Foreword
		Introduction
1		Scope
2		Normative references
3		Terms and definitions
4		Principle
5		Reagents
	5.1 5.2 5.3 5.4 5.5	General Solvents and chemicals Standard and reference compounds Working solutions** Other solutions
6		Apparatus
7		Sample
	7.1 7.2	Sampling Preparation of the test sample
8		Procedure
	8.1 8.2 8.3 8.4 8.5	Spiking with surrogate standard and homogenization Ester cleavage and glycidol transformation Matrix removal Derivatization Gas chromatography/mass spectrometry references
9		Expression of results
	9.1 9.2 9.3 9.4 9.5	Determination of bound glycidol Determination of bound 2-MCPD Determination of bound 3-MCPD Determination of the degree of diester cleavage Quality control
10		Notes
Annex A		(informative) Examples of relevant chromatograms and data evaluation using "low-MCPD" palm $$ oil
	A.1 A.2 A.3	Examples of relevant selected ion monitoring (SIM) chromatograms Examples of data evaluation Final results
Annex B		(informative) Results of interlaboratory tests

Page count: 21