

DIN EN ISO 12966-2:2017-08 (E)

Animal and vegetable fats and oils - Gas chromatography of fatty acid methyl esters - Part 2: Preparation of methyl esters of fatty acids (ISO 12966-2:2017)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1 Scope		8
2 Normative references		8
3 Terms and definitions		8
4 Reactions		8
5 Methodology		9
5.1 Preparation of test sample.....		9
5.2 Rapid method.....		9
5.2.1 Applicability.....		9
5.2.2 Principle.....		9
5.2.3 Reagents.....		10
5.2.4 Apparatus.....		10
5.2.5 Procedure.....		10
5.3 General method.....		11
5.3.1 Applicability.....		11
5.3.2 Principle.....		11
5.3.3 Reagents.....		11
5.3.4 Apparatus and materials.....		12
5.3.5 Procedure.....		12
5.4 Transmethylation using boron trifluoride (BF ₃) catalyst.....		13
5.4.1 Principle.....		13
5.4.2 Applicability.....		13
5.4.3 Reagents.....		13
5.4.4 Apparatus.....		14
5.4.5 Procedure.....		15
5.5 Acid-catalysed transmethylation of glycerides.....		16
5.5.1 Principle.....		16
5.5.2 Reagents.....		16
5.5.3 Apparatus.....		17
5.5.4 Preparation of test sample.....		17
5.5.5 Procedure.....		17
Annex A (informative) Thin-layer chromatography method for testing the completeness of derivatization		18
Bibliography		22