

DIN EN ISO 18363-3:2022-04 (E)

Animal and vegetable fats and oils - Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS - Part 3: Method using acid transesterification and measurement for 2-MCPD, 3-MCPD and glycidol (ISO 18363-3:2017)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Principle	8
5 Reagents	8
5.1 Standard and reference compounds	8
5.2 Standard solutions	9
5.2.1 General	9
5.2.2 Stock solutions (1 mg/ml)	9
5.2.3 Working solutions	9
5.3 Other reagents	10
5.4 Reagent solutions	10
6 Apparatus	11
7 Sample	11
7.1 Sampling	11
7.2 Preparation of the test sample	11
8 Procedure	12
8.1 Test sample preparation	12
8.2 Preparation of the calibration curve	13
8.3 Gas chromatography/mass spectrometry references	13
9 Expression of results	14
9.1 Quantification of 3-MCPD esters	14
9.2 Quantification of 2-MCPD esters	15
9.3 Quantification of glycidyl esters	15
10 Precision	16
10.1 General	16
10.2 Repeatability	16
10.3 Between-day reproducibility	16
11 Test report	17
Annex A (informative) Construction of the calibration curves	18
Annex B (informative) Results of the interlaboratory test	22
Bibliography	24