

DIN EN ISO 18363-1:2022-04 (E)

Animal and vegetable fats and oils - Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS - Part 1: Method using fast alkaline transesterification and measurement for 3-MCPD and differential measurement for glycidol (ISO 18363-1: 2015)

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	9
5.1 General.....	9
5.2 Standard and reference compounds.....	9
5.3 Solvents.....	9
5.4 Other reagents.....	9
6 Apparatus	10
7 Sample	10
7.1 Sampling.....	10
7.2 Preparation of the test sample.....	10
8 Procedure	11
8.1 Spiking with surrogate standard and homogenization.....	11
8.2 Ester cleavage and glycidol transformation.....	11
8.3 Matrix clean up.....	11
8.4 Derivatization.....	11
8.5 Gas chromatography/mass spectrometry references.....	12
9 Expression of results	12
10 Precision	13
10.1 Interlaboratory test.....	13
10.2 Repeatability.....	14
10.3 Reproducibility.....	14
11 Test report	14
Annex A (informative) Results of an collaborative trial	15
Bibliography	17