DIN EN ISO 16186:2021-09 (E)

Footwear - Critical substances potentially present in footwear and footwear components - Determination of dimethyl fumarat (DMFU) (ISO 16186:2021)

Contents

Page

European foreword 3

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Termsanddefinitions 6

4 Principle 6

5 Reagents and materials 6

6 Apparatus 7

7 Sampling 8

8 Procedure 8
8.1 Standard procedure 8
8.2 Procedure for complex matrix 8
8.2.1 Extraction 8
8.2.2 Clean-up 9
8.3 Preparation of calibration solutions 9
8.4 Determination of dimethyl fumarate 9

9 Expression of results 9
9.1 Calculation of dimethyl fumarate in the sample 9
9.2 Limit of quantification (LOQ) 10

10 Test report 10

Annex A (informative) The chromatography parameters (GC-MS) 11

Annex B (informative) The chromatography parameters (GC-MS/MS) 13

Annex C (informative) Rationale for excluding methanol as extraction solvent 15

Annex D (informative) Reliability of the method 16

Bibliography 17