DIN EN ISO 18219-2:2021-09 (E)

Leather - Determination of chlorinated hydrocarbons in leather - Part 2: Chromatographic method for middle-chain chlorinated paraffins (MCCPs) (ISO 18219-2:2021)

Contents

Page

European foreword 3

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Principle 6

5 Apparatus and materials 6

6 Reagents 7

7 Sampling 7

8 Sample preparation and analysis 7
8.1 Preparation of MCCPs calibration solution (50 µg/ml) with 55 % chlorination degree 7
8.2 Extraction of leather 8
8.3 Sulfuric acid clean-up 8
8.4 GC-ECNI-MS Determination 8

9 Expression of results 8
9.1 Evaluation 8
9.2 Ions used for quantification 8
9.3 Interference to MCCPs determination 8
9.4 Calculation 9
9.5 Precision 9

10 Test report 9

Annex A (informative) Gas chromatographic (GC-ECNI-MS) analysis operating parameters 11

Annex B (informative) Liquid chromatographic (LC-MS/MS) analysis operating parameters 13

Annex C (informative) Integration with peak shape evaluation (PSE) with GC-ECNI-MS 17

Bibliography 20