

DIN EN 16377:2013-12 (E)

Characterization of waste - Determination of brominated flame retardants (BFR) in solid waste

Contents		Page
Foreword		3
Introduction		4
1 Scope		5
2 Normative references		5
3 Principle		5
4 Interference		6
5 Reagents and standards		6
6 Equipment		7
7 Sample pretreatment		8
8 Procedure		9
9 Calibration		11
10 Test report		15
Annex A (normative) Clean-up procedures		16
A.1 Multi-layer column chromatography I (Al ₂ O ₃), column size: 22 mm × 190 mm		16
A.2 Multi-layer column chromatography II (Silica), column size: 22 mm × 190 mm		16
A.3 Gel permeation chromatography (GPC)		18
Annex B (informative) Examples of separation conditions in gas chromatography and mass spectrometry		20
Annex C (informative) Typical ions and time windows for electron impact ionisation detection		22
Annex D (informative) Examples of chromatograms		23
Annex E (informative) Precision data		25
Annex F (informative) Summary of general requirements and recommendations		27
Bibliography		28