

ISO 8124-6:2023-08 (E)

Safety of toys - Part 6: Certain phthalate esters

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Reagents	3
6	Apparatus	4
6.1	General	4
6.2	Normal laboratory apparatus	4
7	Selection of test portions	5
7.1	General	5
7.2	Individual test	5
7.3	Composite test	5
8	Procedure	6
8.1	General	6
8.2	Sample weighing	6
8.2.1	Individual test	6
8.2.2	Composite test	6
8.3	Extraction	6
8.3.1	General	6
8.3.2	Method A	6
8.3.3	Method B	6
8.3.4	Method C	7
8.4	Sample solution for analysis	7
8.4.1	General	7
8.4.2	Quantification by external standard (ES) calibration	7
8.4.3	Quantification by IS calibration	8
8.5	Determination	8
8.5.1	GC-MS conditions	8
8.5.2	Identification	8
8.5.3	Calibration	9
9	Calculation	10
9.1	Individual test	10
9.1.1	External standard (ES) calculation	10
9.1.2	Internal standard (IS) calculation	11
9.2	Composite test	12
9.2.1	Maximum concentration calculation	12
9.2.2	Conformity assessment of the composite test result	12
9.2.3	Examples of composite testing	13
10	Quality control	14

10.1	Limit of quantification (LOQ)	14
10.2	Method blank	14
10.3	Recovery	14
10.4	Calibration check	14
11	Precision	14
12	Test report	14
Annex A (normative) Phthalate esters		16
Annex B (informative) Precision of the method		17
Annex C (informative) Soxhlet extractor and solvent extractor		21
Annex D (informative) Composite test		23
Annex E (normative) Ultrasonic bath performance check		30
Annex F (informative) Example of GC-MS conditions		33
Annex G (informative) Background and rationale		37
Bibliography		40