

DIN EN ISO 22818:2021-06 (E)

Textiles - Determination of short-chain chlorinated paraffins (SCCP) and middle-chain chlorinated paraffins (MCCP) in textile products out of different matrices by use of gas chromatography negative ion chemical ionization mass spectrometry (GC-NCI-MS) (ISO 22818:2021)

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	Reagents	6
6	Apparatus	7
7	Preparation of test specimens	8
8	Procedure	8
8.1	Extraction of test specimen	8
8.2	Sulfuric acid clean-up	8
8.3	Preparation of the calibration solutions	8
8.3.1	Preparation of SCCPs calibration solution (5 µg/ml) with 59 % Cl	8
8.3.2	Preparation of SCCPs calibration solution (50 µg/ml) with 59 % Cl	8
8.3.3	Preparation of SCCPs calibration solution (75 µg/ml) with 59 % Cl	8
8.3.4	Preparation of MCCPs calibration solution (5 µg/ml) with 55 % Cl	8
8.3.5	Preparation of MCCPs calibration solution (50 µg/ml) with 55 % Cl	9
8.3.6	Preparation of MCCPs calibration solution (75 µg/ml) with 55 % Cl	9
8.3.7	Daily calibration	9
8.4	GC-MS determination	9
9	Expression of results	10
9.1	Evaluation	10
9.2	Determination of the recovery rate of the IS	10
9.3	Interferences	10
9.3.1	Interferences of MCCPs masses	10
9.3.2	Interferences of SCCPs masses	11
10	Test report	11
Annex A (normative)	Integration with peak shape evaluation (PSE)	12
Annex B (informative)	Chromatographic parameters	17
Annex C (informative)	Reliability of method	19
Bibliography		20