

# ISO 18254-2:2018-12 (E)

## Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 2: Method using NPLC

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	1
5	Reagents .....	1
6	Apparatus .....	2
7	Procedure .....	3
7.1	Standard preparation .....	3
7.2	Mobile phase for HPLC .....	3
7.2.1	Methanol with 0,1 % formic acid and 0,01 % ammonium formate .....	3
7.2.2	Acetonitrile with 0,1 % formic acid .....	3
7.3	Sample preparation .....	3
7.4	Sample extraction .....	3
7.5	Sample analysis .....	4
8	Calculation and calibration .....	4
8.1	Calculation of contribution percentage of each APEO congener in standard solution .....	4
8.2	Calculation of concentration of each APEO congener in standard solution .....	4
8.3	Calculation of concentration of each APEO congener in sample .....	4
8.4	Calculation of total concentration of all APEO congener in sample .....	5
8.5	Calibration curve .....	5
9	Test report .....	5
Annex A (informative)	Examples of chromatographic condition .....	6
Annex B (informative)	Examples of solid phase extraction (SPE) procedure for clean up .....	14
Annex C (informative)	Results of the interlaboratory test .....	15
Annex D (informative)	Study of the contribution percentage (mole fraction) of APEO congeners .....	16
Bibliography .....		18