

## Reference Material (RM) Information Sheet

<b>RM Name</b>	: Alkylphenol Ethoxylates (APEOs) in Textile
<b>RM Code</b>	: TAPE-189A
<b>Matrix Type / Color</b>	: Viscose Fabric / Navy Blue
<b>Reference Material Producer</b>	: TexEcoRM – Textile Ecological Reference Materials (Owner: Özkan ANIK) Atakent Mah. Küçükçekmece / İSTANBUL / TÜRKİYE Özkan ANIK / +90544 6525684
<b>Date of Issue</b>	: 25.09.2022
<b>Validity</b>	: 2 years from the latest characterization date.
<b>Notice</b>	: This document relates to a Reference Material (RM). It is not a Certified Reference Material (CRM) and measurement uncertainty is not stated. Reported values are indicative and provided for information / IQC purposes.
<b>Assigned Value</b>	: The indicative values are in the table below.

### Technical Information and Property Values

Measured Property <sup>[1]</sup>	Indicative Value (mg/kg) <sup>[2]</sup>	Indicative Standard Deviation (mg/kg) <sup>[3]</sup>
Nonylphenol ethoxylate, NPEO CAS NO : 68412-54-4	144,78	11,89
Octylphenol ethoxylate, OPEO CAS NO : 9036-19-5	56,11	6,13

[1] This RM represents the Alkylphenol Ethoxylates (APEOs) content determined according to ISO 18254-1.

[2] [3] **Assignment Methodology** : The Indicative Value was calculated as the arithmetic mean and the Indicative Standard Deviation as the sample standard deviation (n-1) of available results obtained by multiple laboratories at different time points.

**Metrological Traceability** : Based on laboratory measurements performed under the applicable standard method; routine calibration and traceable standards are used where applicable.

**Data basis**: n = 9 laboratory results (characterization date range: Jul 2023 – Dec 2025).

**Sales Date**



**Özkan ANIK**  
Director of TexEcoRM

**Quality Assurance and Material Integrity**

**Homogeneity**

Homogeneity was evaluated through internal homogeneity checks performed on representative units of the batch. The material was post-processed (cut/mixed/sub-sampled) and re-tested after a defined period. The observed variability was considered sufficient for the intended use.

**Storage Conditions**

Store at  $(4 \pm 2)$  °C in the original packaging, dry and protected from light. It can be stored in airtight containers. TexEcoRM cannot be held responsible for any changes to the material due to non-compliance with storage conditions and usage instructions.

Allow to equilibrate to room temperature before opening to avoid condensation.

**Safety Instructions**

Handle this material as a laboratory test specimen that may contain restricted substances. Wear appropriate PPE (lab coat, gloves, and eye protection) and follow your laboratory's standard safety procedures for sample handling, extraction, and waste disposal. Dispose of extracts and residues in accordance with local regulations.

**Stability**

Long-term stability under the specified storage conditions is supported by periodic monitoring (e.g., 3-monthly checks). Transport stability was also assessed to ensure no significant change during delivery.

The period of validity is supported by ongoing periodic monitoring; updated data are available upon request.

**Intended Use**

For internal quality control (IQC), method performance monitoring, training/verification, and as a control material for interlaboratory comparisons (PT/ILC) participants.

Usage note (IQC): Establish your own mean/SD ( $\geq 10$  results) and use your in-house SD for control limits ( $\pm 2$  SD warning,  $\pm 3$  SD action).

Limitation: Results may be method-dependent (e.g., extraction conditions and instrument setup).

**Test Portion Requirements**

Samples must be used in the quantity and manner specified in the applicable international standard(s). TexEcoRM is not responsible for use that deviates from these requirements.