

Certificate of Analysis

Reference Material

Product Name:	4-Nonylphenol-ethoxylate	Catalogue Number:	CCHM705078
Chemical Name:	N/A	Lot Number:	0818-RD-0007
CAS Number:	68412-54-4	Expiry Date:	Oct 09, 2025
Molecular Formula:	N/A	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	N/A		
Chemical Structure:	N/A		

Test Items	Method	Results
Appearance	Visual inspection	Colourless Sticky Liquid
Purity	HPLC	100.0%
Water Content	Karl Fischer	0.3000%
Assay		99.7%
Uncertainty		±5.0%

Comment:

1. No chromatogram available.
2. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.
3. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Reviewed by:

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Aporoved by General manager:

David

Date: Oct 09, 2019

Date: Aug 23, 2022

Date: Aug 23, 2022

