

Certificate of Analysis

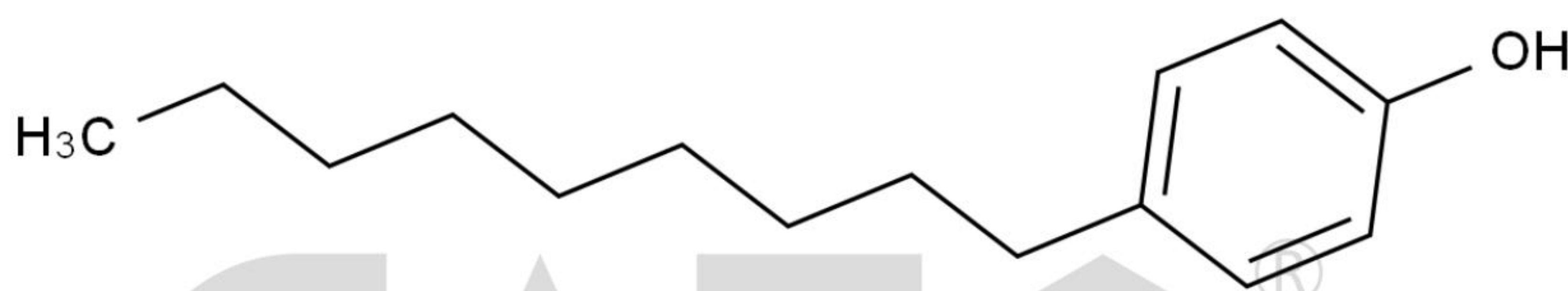
Reference Material & Standard

Product Name:	4-N-Nonylphenol(mixture of isomers)	Catalogue Number:	CWLT600074
Synonyms:	N/A	Lot Number:	1014-RF-0007
CAS Number:	104-40-5	Expiry Date:	Nov 03, 2027
Molecular Formula:	C ₁₅ H ₂₄ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	220.35	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Sticky Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	91.472%
Loss on Drying	TGA	0.7646%
Assay		90.8%
Uncertainty		±2.0%

Comment:

- Mixture of isomers.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.
- 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:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 04, 2024

Date: Nov 04, 2024

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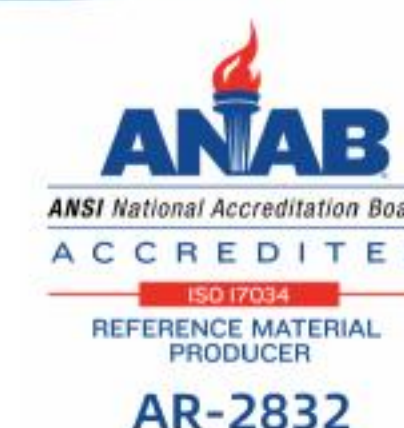
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