

Certificate of Analysis

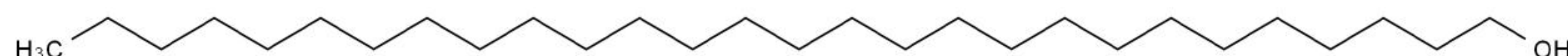
Reference Material & Standard

Product Name:	1-Octacosanol	Catalogue Number:	CCHM701999
Synonyms:	N/A	Lot Number:	0408-RF-0047
CAS Number:	557-61-9	Expiry Date:	Apr 09, 2028
Molecular Formula:	C ₂₈ H ₅₈ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	410.76	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	96.776%
Loss on Drying	TGA	0.0096%
Assay		96.8%
Uncertainty		±2.0%

Comment:

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

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

Loss on Drying is considered as absolute effect, GC 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: Apr 10, 2024

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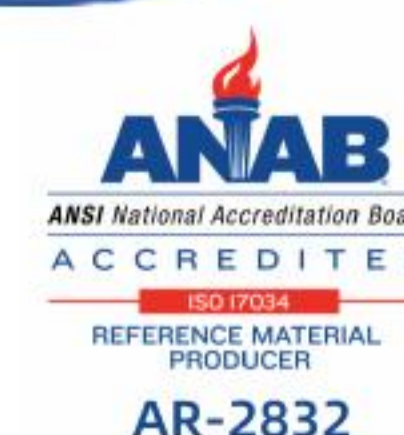
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Page 1 of 7



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