

Certificate of Analysis

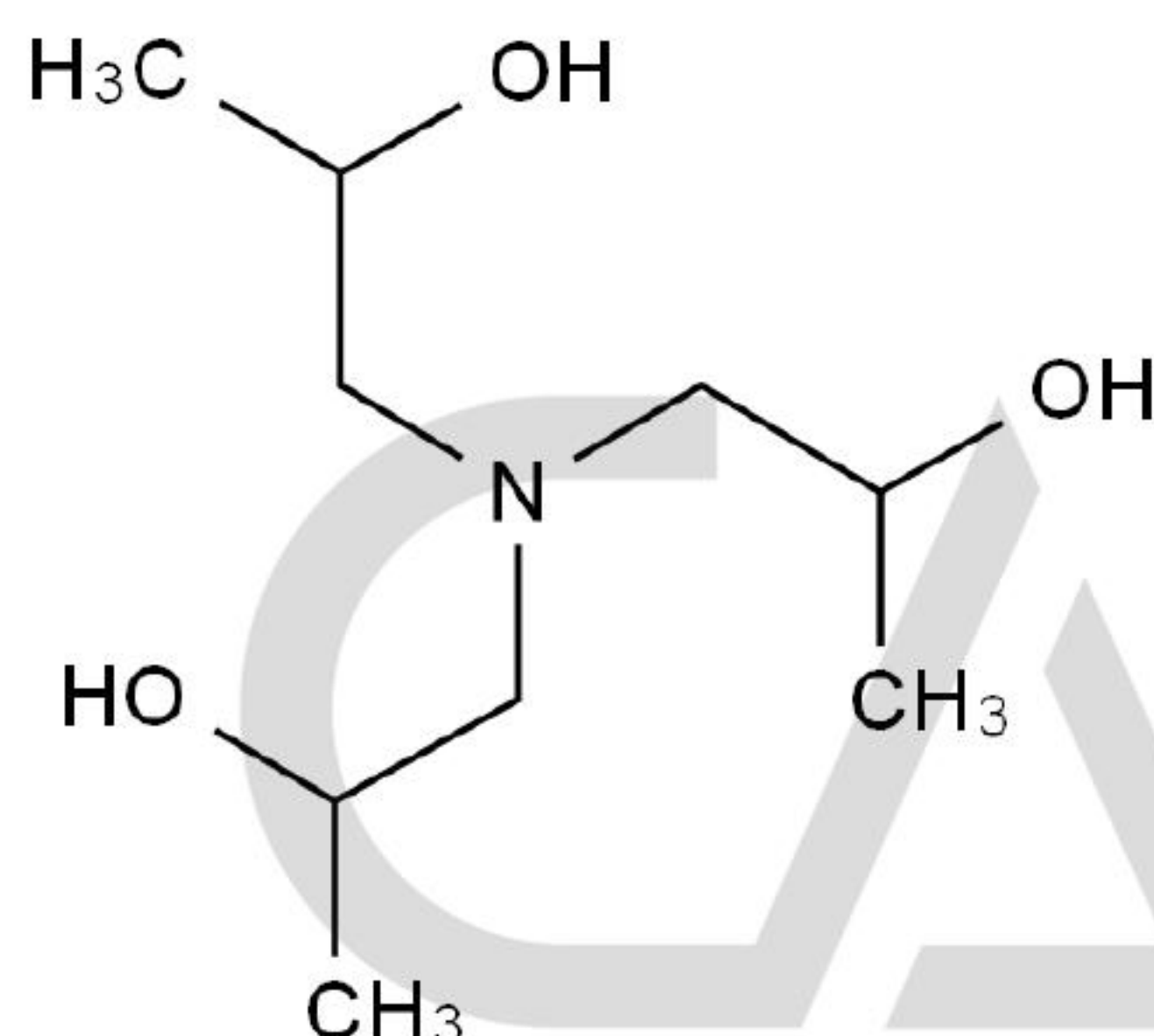
Reference Material & Standard

Product Name:	Triisopropanolamine (mixture of isomer)	Catalogue Number:	CCHM703120
Synonyms:	N/A	Lot Number:	0914-RF-0093
CAS Number:	122-20-3	Expiry Date:	Sep 19, 2028
Molecular Formula:	C ₉ H ₂₁ NO ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	191.27	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	98.679%
Water Content	Karl Fischer	1.1793%
Assay		97.5%
Uncertainty		±2.0%

Comment:

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

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

Water Content is considered as absolute effect, GC purity is considered as relative effect.

2. 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: Sep 20, 2024

Date: Sep 20, 2024

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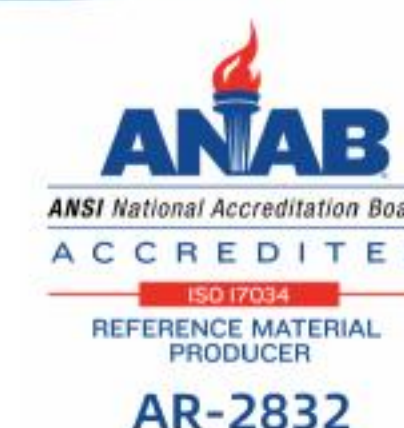
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