

Certificate of Analysis

Reference Material & Standard

Product Name:	Alpha-Chlorotoluene	Catalogue Number:	CCEM500442
Synonyms:	N/A	Lot Number:	0819-RF-0042
CAS Number:	100-44-7	Expiry Date:	Aug 20, 2028
Molecular Formula:	C ₇ H ₇ Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	126.58		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.907%
Water Content	Karl Fischer	0.1983%
Assay		99.7%
Uncertainty		±2.0%

Comment:

- 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.
- 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: Aug 21, 2024

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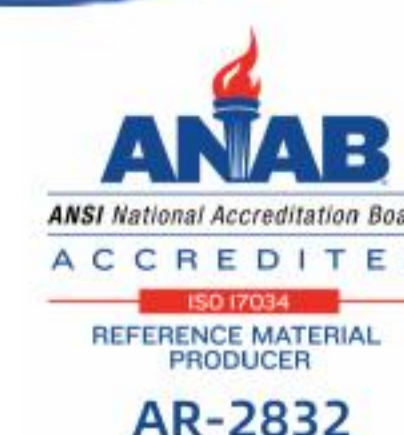
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



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