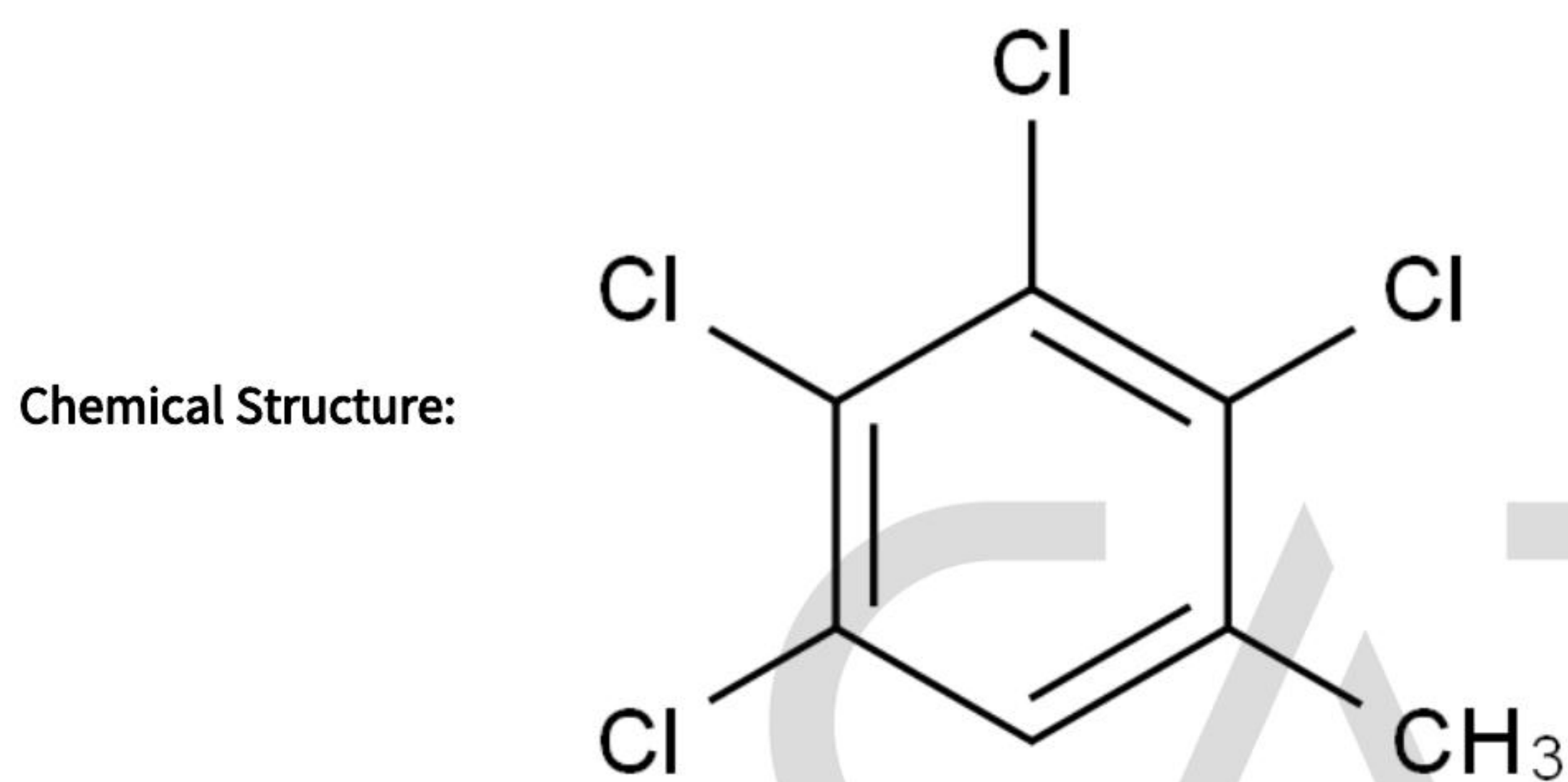


Certificate of Analysis

Reference Material & Standard

Product Name:	2,3,4,5-Tetrachlorotoluene	Catalogue Number:	CCHM702058
Synonyms:	N/A	Lot Number:	0110-RG-0085
CAS Number:	1006-32-2	Expiry Date:	Jan 13, 2029
Molecular Formula:	C ₇ H ₄ Cl ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	229.92		



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.3%
Assay	qNMR	97.5%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
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: Jan 14, 2025

Date: Jan 14, 2025

Date: Jan 14, 2025

