

# Certificate of Analysis

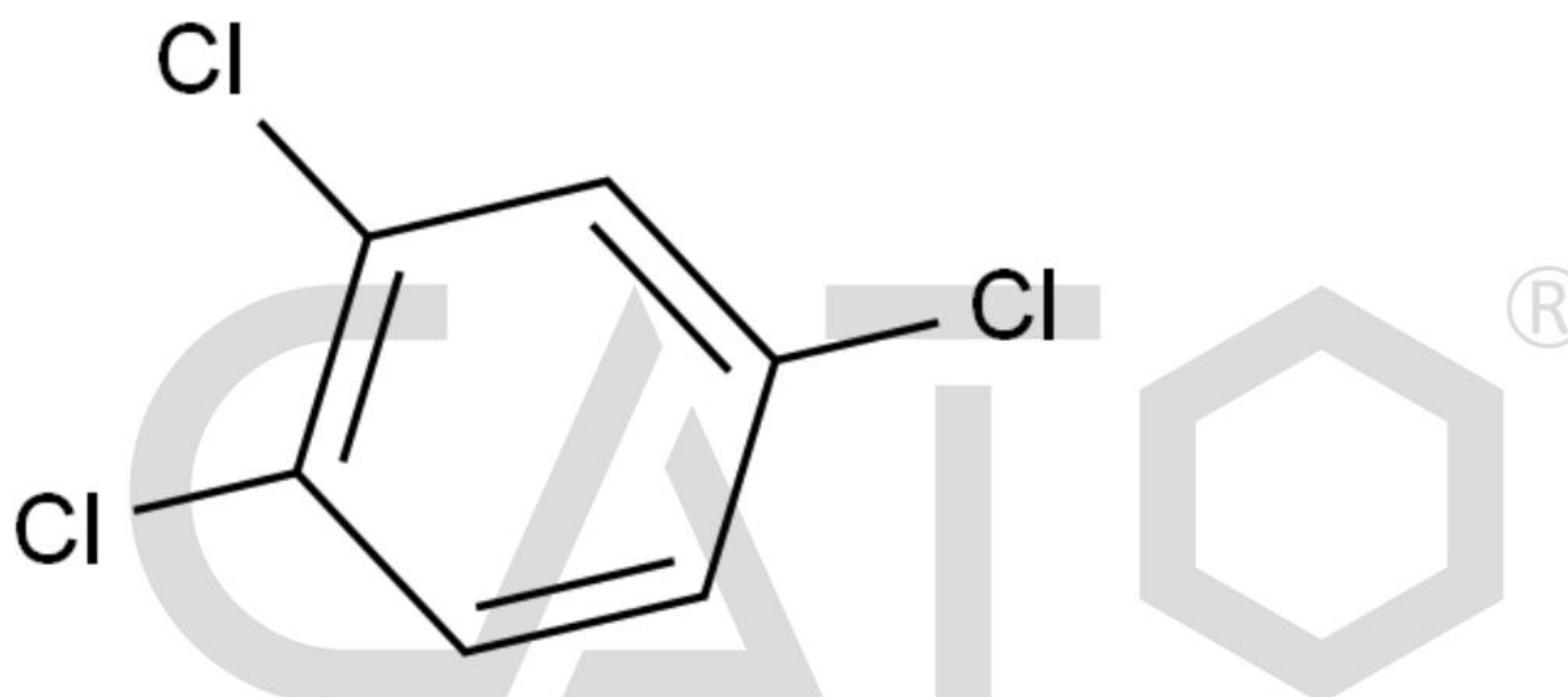
## Reference Material & Standard

|                    |                                               |                   |                                           |
|--------------------|-----------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | 1,2,4-Trichlorobenzene                        | Catalogue Number: | CCEM500024                                |
| Synonyms:          | N/A                                           | Lot Number:       | 0701-RF-0086                              |
| CAS Number:        | 120-82-1                                      | Expiry Date:      | Jul 02, 2028                              |
| Molecular Formula: | C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 181.45                                        |                   |                                           |

Warning:



Chemical Structure:



| Test Items     | Method            | Results           |
|----------------|-------------------|-------------------|
| Appearance     | Visual inspection | Colourless Liquid |
| Identification | GCMS&CNMR&HNMR    | Confirmed         |
| Purity         | GC                | 99.2%             |
| Assay          | qNMR              | 98.8%             |
| Uncertainty    |                   | ±0.5%             |

## Comment:

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:

*Lisa*

Reviewed by:

*Hin Lam*

Approved by General Manager:

*David*

Date: Oct 31, 2025

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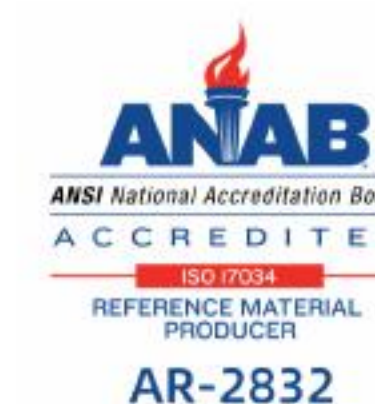
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

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

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