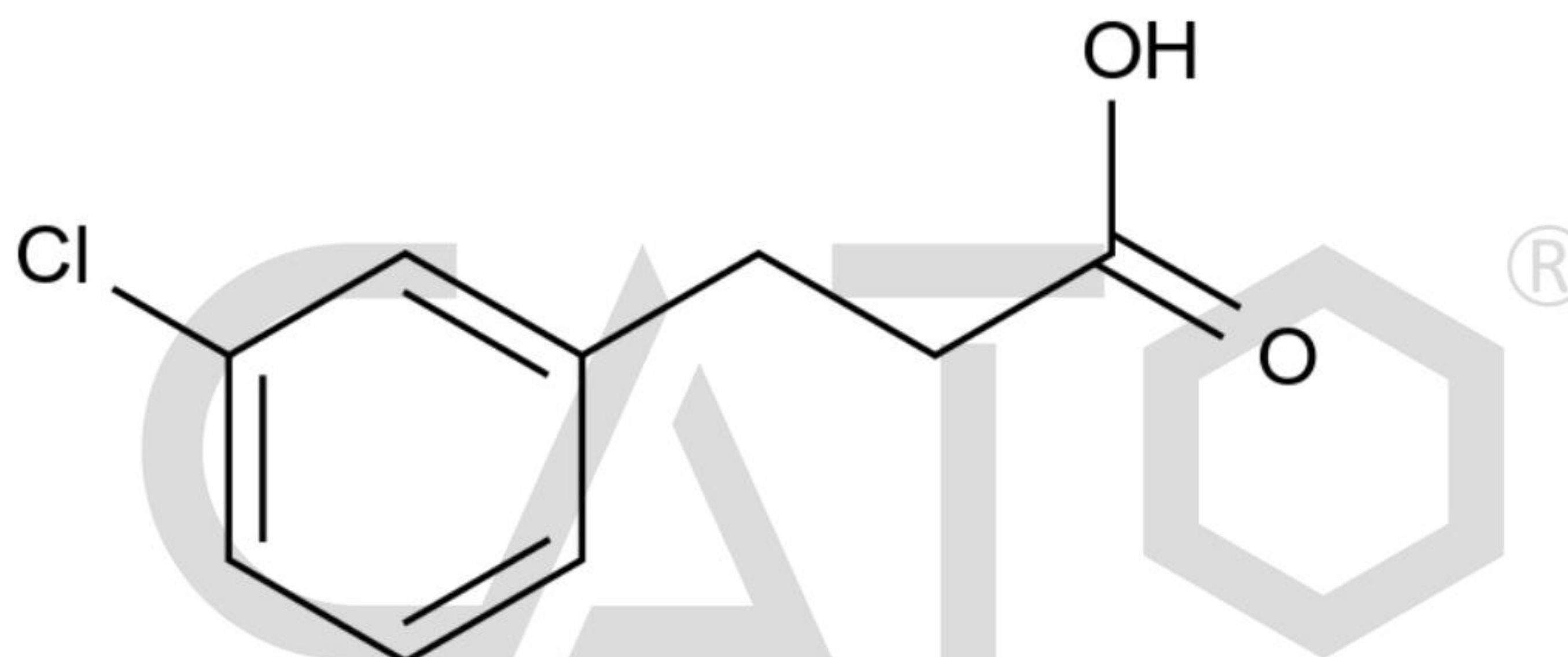


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                |                     |                                                                                      |
|--------------------|------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|
| Product Name:      | 3-(3-Chlorophenyl)propanoic acid               | Catalogue Number:   | C1648277                                                                             |
| Synonyms:          | N/A                                            | Lot Number:         | 0403-RH-0111                                                                         |
| CAS Number:        | 21640-48-2                                     | Expiry Date:        | Apr 07, 2030                                                                         |
| Molecular Formula: | C <sub>9</sub> H <sub>9</sub> ClO <sub>2</sub> | Storage:            | Room Temp Protected from light and Sealed                                            |
| Molecular Weight:  | 184.62                                         | Shipping Condition: | Shipping at Room Temperature                                                         |
| Solubility:        | Acetonitrile                                   | Warning:            |  |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 98.470%     |
| Water Content  | Karl Fischer      | 0.2179%     |
| Assay          |                   | 98.3%       |
| Uncertainty    |                   | ±0.4%       |

## Comment:

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

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

Water Content is considered as absolute effect, HPLC 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:

*Koi*

Approved by General Manager:

*David*

Date: Apr 08, 2026

Date: Apr 08, 2026

Date: Apr 08, 2026



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