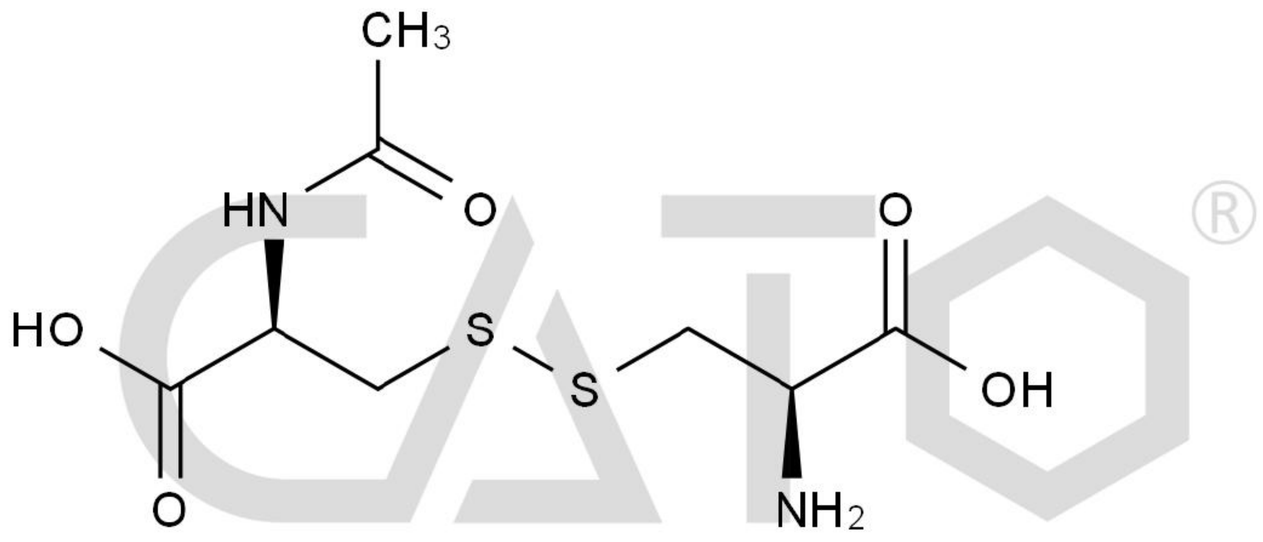
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Acetylcysteine Impurity 40 | **Catalogue Number:** | C4X-153240 |
| **Synonyms:** | N-Acetyl-L-cystine | **Lot Number:** | 1012-RH-0046 |
| **CAS Number:** | 25779-79-7 | **Expiry Date:** | Oct 14, 2030 |
| **Molecular Formula:** | $C_8H_{14}N_2O_5S_2$ | **Storage:** | -20°C±5°C Protected from light and Sealed |
| **Molecular Weight:** | 282.34 | **Shipping Condition:** | Shipping with Ice Packs |
| | | **Warning:** |  |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | White Solid |
| **Identification** | HRMS&IR&UV&HNMR | Confirmed |
| **Purity** | HPLC | 99.4% |
| **Assay** | qNMR | 94.2% |

CATO Research Chemicals Inc.

**Signature:**

Prepared by: Koji Date: Oct 15, 2026

Reviewed by: Lisa Date: Oct 16, 2026

Approved by General Manager: David Date: Oct 16, 2026

CATO Research Chemicals Inc.