

# Certificate of Analysis

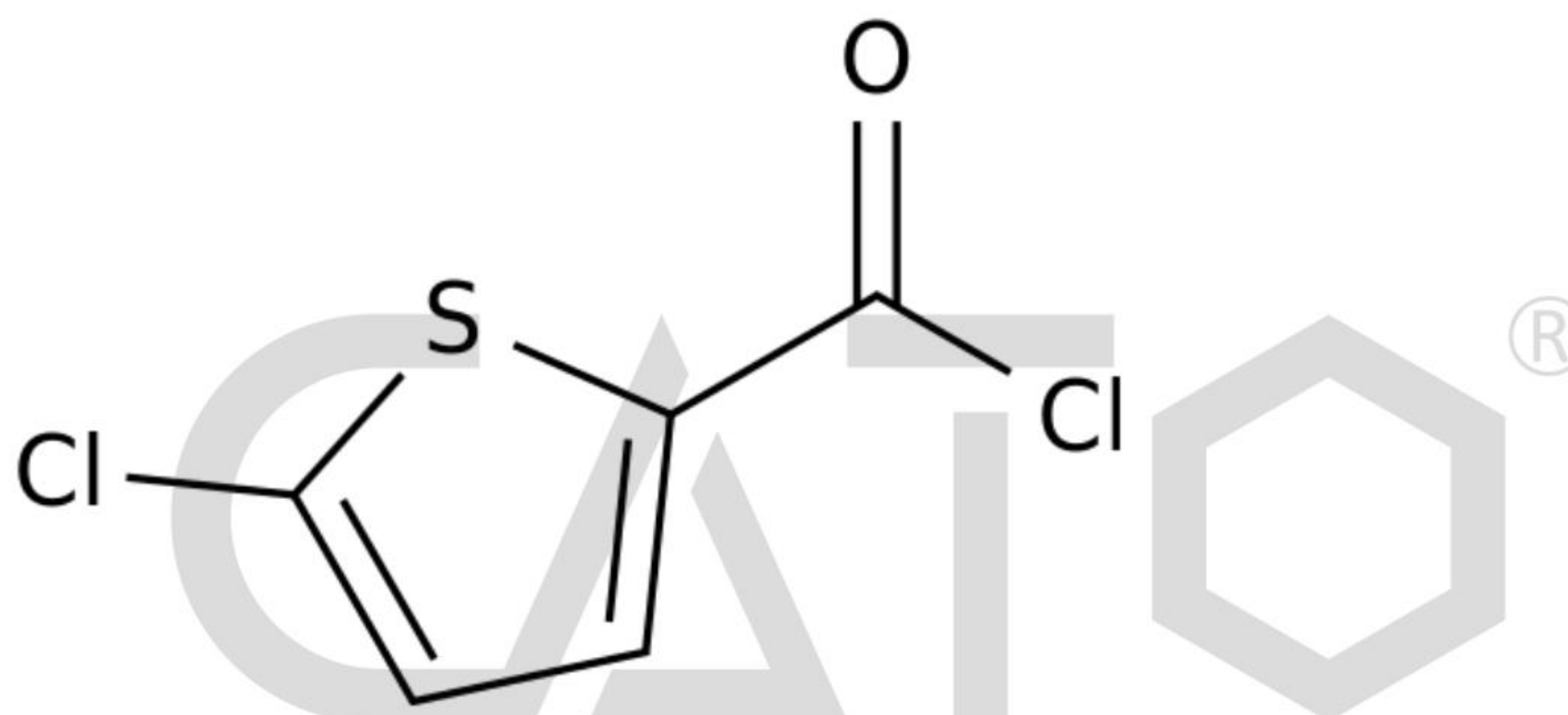
## Reference Material & Standard

|                           |                                                  |                            |                                           |
|---------------------------|--------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Rivaroxaban Impurity 133                         | <b>Catalogue Number:</b>   | C4X-1090133                               |
| <b>Synonyms:</b>          | 5-Chlorothiophene-2-carbonyl Chloride            | <b>Lot Number:</b>         | 0717-RH-0050                              |
| <b>CAS Number:</b>        | 42518-98-9                                       | <b>Expiry Date:</b>        | Jul 16, 2030                              |
| <b>Molecular Formula:</b> | C <sub>5</sub> H <sub>2</sub> Cl <sub>2</sub> OS | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 181.04                                           | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

**Warning:**



Chemical Structure:



| Test Items     | Method            | Results                  |
|----------------|-------------------|--------------------------|
| Appearance     | Visual inspection | Colourless Sticky Liquid |
| Identification | GCMS&HNMR         | Confirmed                |
| Purity         | GC                | 99.6%                    |
| Assay          | qNMR              | 93.0%                    |

Signature:

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Reviewed by:

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Approved by General Manager:

*David*

Date: Jul 17, 2026

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