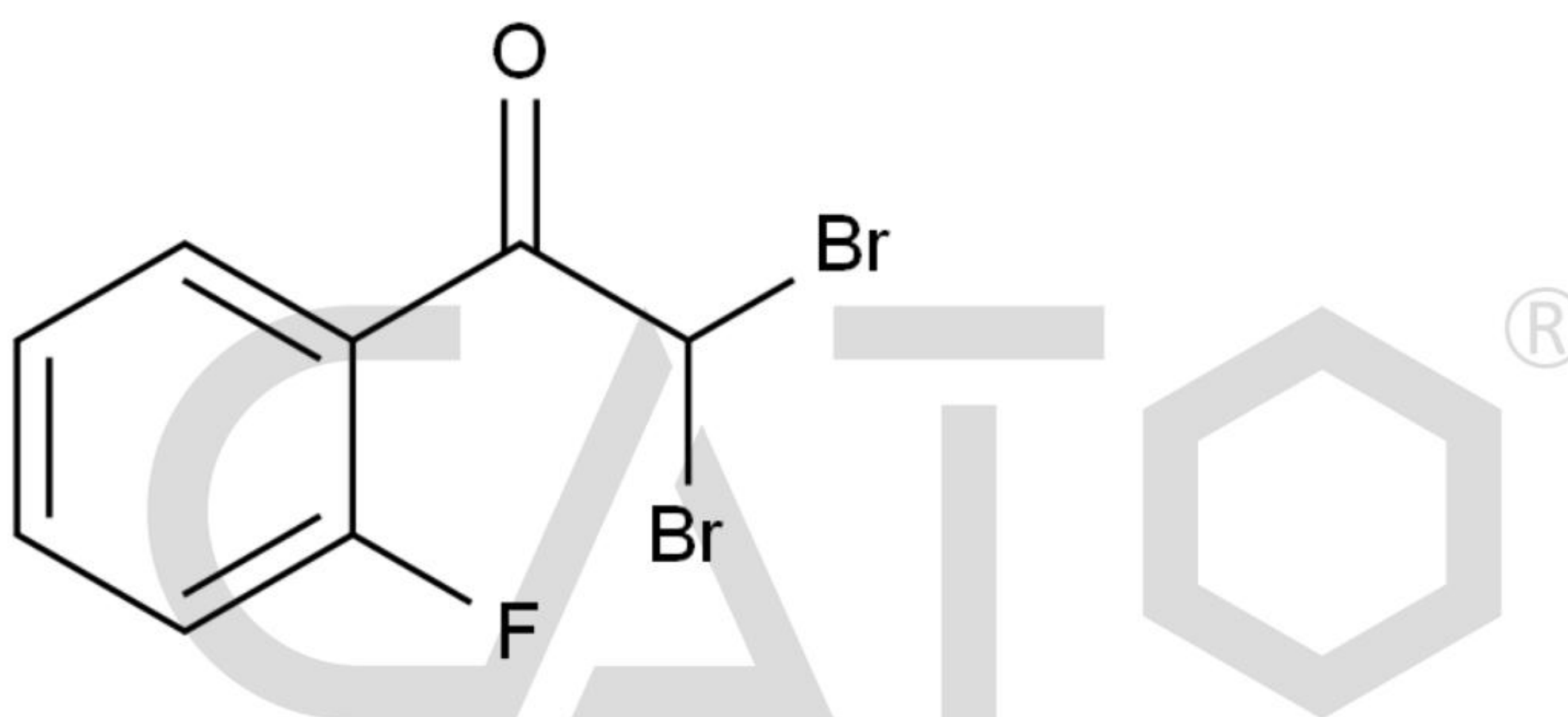


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                  |                            |                                           |
|---------------------------|--------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Vonoprazan Impurity 89                           | <b>Catalogue Number:</b>   | C4X-102089                                |
| <b>Synonyms:</b>          | N/A                                              | <b>Lot Number:</b>         | 0420-RH-0021                              |
| <b>CAS Number:</b>        | 1224739-02-9                                     | <b>Expiry Date:</b>        | Apr 23, 2030                              |
| <b>Molecular Formula:</b> | C <sub>8</sub> H <sub>5</sub> Br <sub>2</sub> FO | <b>Storage:</b>            | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 295.93                                           | <b>Shipping Condition:</b> | Shipping with Ice Packs                   |
| <b>Solubility:</b>        | Acetonitrile                                     |                            |                                           |

Chemical Structure:



| Test Items     | Method            | Results             |
|----------------|-------------------|---------------------|
| Appearance     | Visual inspection | Light Yellow Liquid |
| Identification | GCMS&HNMR         | Confirmed           |
| Purity         | HPLC              | 99.8%               |
| Assay          | qNMR              | 93.3%               |

Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Apr 24, 2026

Date: Apr 24, 2026

Date: Apr 24, 2026



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