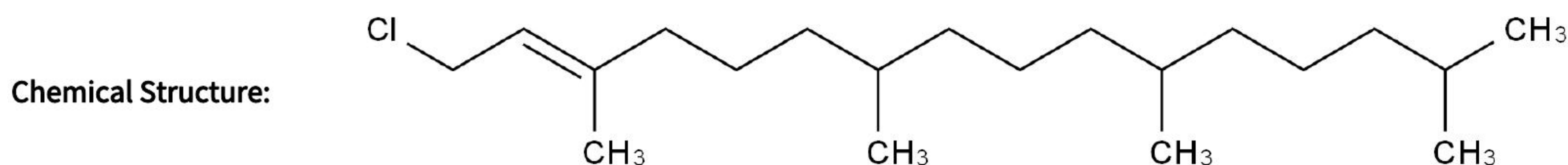


# Certificate of Analysis

## Reference Material & Standard

|                    |                                    |                     |                                           |
|--------------------|------------------------------------|---------------------|-------------------------------------------|
| Product Name:      | Vitamin K1 Impurity 19             | Catalogue Number:   | C4X-220719                                |
| Synonyms:          | N/A                                | Lot Number:         | 0209-RH-0047                              |
| CAS Number:        | 2580987-82-0                       | Expiry Date:        | Aug 03, 2027                              |
| Molecular Formula: | C <sub>20</sub> H <sub>39</sub> Cl | Storage:            | -20°C±5°C Protected from light and Sealed |
| Molecular Weight:  | 314.98                             | Shipping Condition: | Shipping with Ice Packs                   |



| Test Items     | Method            | Results             |
|----------------|-------------------|---------------------|
| Appearance     | Visual inspection | Light Yellow Liquid |
| Identification | LCMS&IR&CNMR&HNMR | Confirmed           |
| Purity         | HPLC              | 93.17%              |
| Loss On Drying | TGA               | 1.263%              |
| Assay          |                   | 92.0%               |

## Comment:

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

Assay (%) = (100%-Loss On Drying) \* Purity HPLC (%) /100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Feb 10, 2026

Date: Feb 10, 2026

Date: Feb 10, 2026



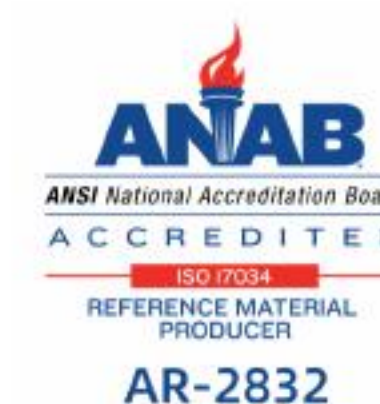
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