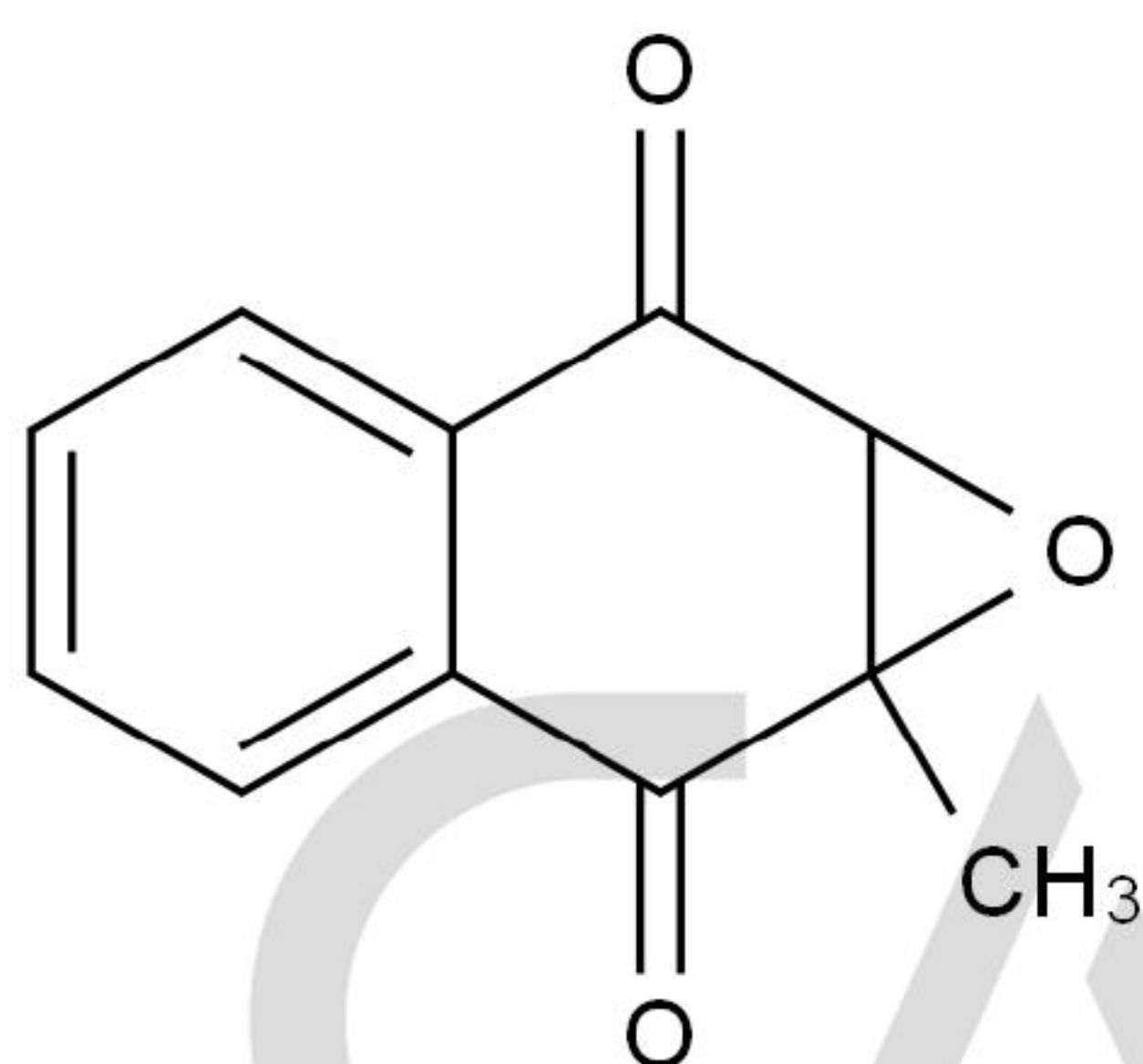


# Certificate of Analysis

## Reference Material & Standard

|                    |                                               |                   |                                           |
|--------------------|-----------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Vitamin K1 Impurity 30                        | Catalogue Number: | C4X-220730                                |
| Synonyms:          | N/A                                           | Lot Number:       | 0401-RF-0037                              |
| CAS Number:        | 15448-59-6                                    | Expiry Date:      | Apr 01, 2027                              |
| Molecular Formula: | C <sub>11</sub> H <sub>8</sub> O <sub>3</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 188.18                                        |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 99.489%     |
| Loss On Drying | TGA               | 0.6426%     |
| Assay          |                   | 98.8%       |

## Comment:

The calculation of the 100% 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:

*Nice*

Reviewed by:

*Koi*

Aproved by General Manager:

*David*

Date: Apr 02, 2024

Date: Apr 02, 2024

Date: Apr 02, 2024

