

# Chem-Impex International, Inc.

---

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalogue Number</b>	00768
<b>Lot Number</b>	000614
<b>Product</b>	<b>Vitamin K<sub>1</sub></b> 2-Methyl-3-phytyl-1,4-naphthoquinone 3-Phytylmenadione
<b>CAS Number</b>	84-80-0
<b>Molecular Formula</b>	C <sub>31</sub> H <sub>46</sub> O <sub>2</sub>
<b>Molecular Weight</b>	450.6

---

<b>Appearance</b>	Amber liquid
<b>Refractive Index</b>	1.5238
<b>Infrared Spectrum</b>	Conforms to structure
<b>Purity by HPLC</b>	98.3%
<b>Purity by UV</b>	Passes test
<b>Grade</b>	USP
<b>Storage</b>	Store at 0-8 °C
<b>Additional Information</b>	Z-Isomer: 18.10% Reaction: Positive Limit of Menadione: Meets the requirements
<b>Remarks</b>	See material safety data sheet for additional information  For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager