



Specification

Vitamin K1 USP

Catalog Number: VK1001
CAS Number: 84-80-0
Synonym(s): 2-Methyl-3-phytyl-1,4-naphthoquinone, 3-Phytylmenadione, Phylloquinone, Phytonadione
Molecular Formula: C₃₁H₄₆O₂
Molecular Weight: 450.71
Storage: 2°C – 8°C, Light sensitive
Retest Period: Two years from the date of manufacture

Test	Specification
Appearance	Clear, yellow to amber viscous liquid
Purity (HPLC)	97.0 – 103.0%
Purity (UV)	Absorptivity within 3.0% of standard
Infrared Spectrum	To match reference spectrum
Refractive Index	1.523 – 1.526
Solubility	Soluble in dehydrated Alcohol, Benzene, Chloroform, Ether, Vegetable Oils. Insoluble in water
Related Substances Limit of Menadione Z Isomer	No purple or blue color ≤ 21.0%
Litmus Reaction (50mg/mL in EtOH)	Neutral

Approved:

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