

Vitamin K1 Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Vitamin K1

Catalog No.: CFN90050

Cas No.: 84-80-0

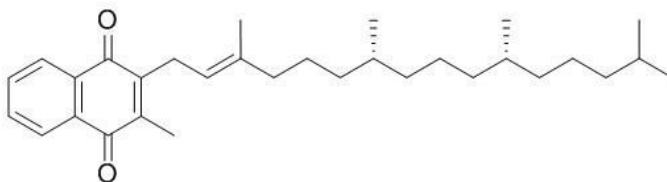
Purity: >=99%

M.F: C₃₁H₄₆O₂

M.W: 450.7

Physical Description: Yellow oil

Synonyms:Phytomenadione; 2-Methyl-3-phytyl-1,4-naphthoquinone;
2-Methyl-3-(3,7,11,15-tetramethyl-2-hexadecenyl)-1,4-naphthalenedione.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

From *Green, leafy vegetables*.

[Biological Activity or Inhibitors]

Vitamin K1 may substantially contribute to reducing postmenopausal bone loss at the site of the femoral neck.^[1]

Vitamin K1 has anticoagulation activity.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-Dichloromethane-Methanol=60:20:20 ;

Flow rate: 1.0 ml/min;

Column temperature: 20 °C;

The wave length of determination: 248 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Braam L A J L M, Knapen M H J, Geusens P, *et al. Calcified Tissue Int.*, 2003, 73(1): 21-6.

[2] Shields R C, Mcbane R D, Kuiper J D, *et al. Mayo Clin. Proc.*, 2001, 76(3):260-6.

[3] Otles S, Cagindi O. *Food Chem.*, 2007, 100(3):1220-2.

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