

# Dry Vitamin K<sub>1</sub> 5% GFP

Human Nutrition

 **BASF**  
The Chemical Company

## Chemical names

Phytomenadione, phyloquinone, phytonadione, 2-methyl-3-phytyl-1,4-naphthoquinone

CAS No.	84-80-0
EINECS No.	201-564-2

## Product number

10305693 kosher

## Description

Free-flowing light yellow powder that consists of almost spherical particles or agglomerates.

## Composition

The powder particles contain vitamin K<sub>1</sub> oil dissolved in droplets of 1-2 µm embedded in a matrix of gum arabic (E 414) and spray-dried glucose syrup. The product contains tricalcium phosphate (E 341) as an anti-caking agent.

## Solubility

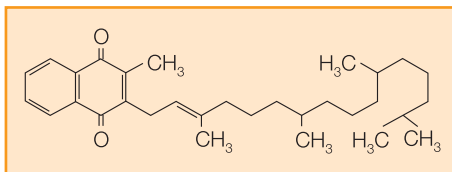
The product can be dispersed in cold water at 10°C, to form a stable milky emulsion.

## Specification

Assay:	min. 5.00% vitamin K <sub>1</sub>
Loss on drying:	max. 5% (4 hours at 105°C)

## Monographs

The included active ingredient complies with the current "Phytomenadione" Ph.Eur. and "Phytonadione" USP monographs.



C<sub>31</sub>H<sub>46</sub>O<sub>2</sub>

Molar mass 450.7 g/mol

## Particle-size distribution

100% smaller than 180 µm (80 mesh USP)  
mean particle size: 150 µm (100 mesh USP)

## Bulk density

Approx. 0.6 g/ml

## Stabilization/Stability

Stored in the unopened original packaging at room temperature (max. 25°C), the product is stable for at least 36 months.

## Standard packaging

1, 5, and 25 kg.

Please see appendix I for further information.

## Storage

The product should be stored in the tightly closed packaging at room temperature (max. 25°C). It is essential to protect the product from light.

## Applications

### Dietary supplements:

For the manufacture of solid products with vitamin K<sub>1</sub> as the sole active ingredient as well as multivitamin and mineral preparations, e.g. tablets, sugar-coated tablets, instant drink granules, effervescent tablets and hard gelatin capsules.

*Food products:*

Food products for babies and small children, except for non cereal based Infant Food formulations in the EU, dietetic products, instant drink powders, dried milk and for vitamin mixtures for the food and ingredients industry. Dry vitamin K<sub>1</sub> 5% can also be used in multivitamin fruit juices and confectionery, e.g. multivitamin sweets. Because it does not contain proteins, it is very suitable for use in hypoallergenic food products.

**Note**

Dry Vitamin K<sub>1</sub> 5% GFP must be handled in accordance with the Safety Data Sheet.

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests: neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.  
May 2005