Vitamin K1

$C_{31}H_{46}O_2$ · CAS 84-80-0 · Phytonadione, oil

INDICATIVE SPECIFICATION — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Phytonadione, oil	$C_{31}H_{46}O_2$	84-80-0	97.0–103.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg amber bottle

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (HPLC)	97.0–103.0%	Specification
Appearance	Clear yellow to amber viscous oil	Specification
Identification	HPLC and UV conform	Analytical
Refractive index	1.525–1.528	Specification
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	Specification
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	Specification
Marker set	Phytonadione 97.0–103.0% (HPLC)	Identity / ratio
Appearance	Clear yellow to amber viscous oil	Visual
Solubility	Practically insoluble in water; soluble in fats and in organic solvents.	Matrix dependent
Standard packaging	1 kg amber bottle · 5 kg amber bottle	Food-grade liner

APPLICATIONS

- Softgel capsules
- Oil-based blends

AVAILABLE FORMS

- Oil
- Powder on carrier on request

WHAT TO CONFIRM BEFORE ORDERING

- Name the form: vitamin K1 (phylloquinone) and vitamin K2 (menaquinone) are different label ingredients.
- Ask for the assay and the isomer ratio; the oil is light-sensitive and the pack must protect it.
- Vitamin K1 is an oil, not a powder; the dosage form and the carrier belong in the formula review.
- Do not use the page as a label or a claim: the finished product's status is a separate legal question.

Indicative document. This sheet describes the grade we can quote; it is not a batch COA and does not confirm a result for a specific lot. Final specification, contaminant limits and documentation are agreed in writing before the order. The form, hydrate state, ligand ratio and method are release

parameters, not marketing descriptions.

DOCUMENTATION RELEASED WITH EACH LOT

DOCUMENT	CONTENT	SCOPE
Certificate of analysis	Assay, identity, physical parameters, contaminant panel and the release decision for the lot.	Batch-specific
Technical data sheet	Form, hydrate state, CAS, specification ranges, solubility, bulk density, storage and packing.	Product-level
Safety data sheet	Sixteen sections covering hazards, handling, storage, transport and emergency response.	Grade-specific
Allergen and GMO statements	Major allergens, gluten, animal-derived inputs and GMO status.	Batch-specific
Origin and traceability record	Manufacturing site and the link between the lot and the retained sample.	Batch-specific
Residual-solvent statement	The crystallisation system and the solvent class, where applicable.	Batch-specific

HOW TO REQUEST THIS GRADE

01 · BRIEF

Send the target specification, quantity, dosage form and destination market.

02 · COUNTER-SPEC

We confirm what can be matched and the documents available for the grade.

03 · SAMPLE & QUOTE

A sample with its own COA, followed by packing, lead time and terms in writing.

No claim is made here. This sheet does not claim a therapeutic effect, a product certification or a regulatory approval. Health claims belong to the brand that makes them and to the market that authorises them.

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