Vitamin K1

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

CATALOG TDS — 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 · 5 kg amber bottle

DESCRIPTION

Vitamin K1 as phytonadione oil, specified at 97.0–103.0% by HPLC with a refractive index window; the oil form, the isomer ratio and the light-sensitive pack are part of the specification.

SPECIFICATION

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

APPLICATIONS

- Softgel capsules
- Oil-based blends

AVAILABLE FORMS

- Oil
- Powder on carrier on request

PACKING

- 1 kg amber bottle
- 5 kg amber bottle

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.