

Vitamin A Palmitate / Acetate

Fat-soluble vitamin – Retinol esters

Product Description

Vitamin A Palmitate and Vitamin A Acetate are stable fat-soluble vitamin A forms used in pharmaceutical, nutraceutical and cosmetic formulations. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2936.21

CAS Number: Palmitate: 79-81-2 / Acetate: 127-47-9

Classification: Pharmaceutical API / Nutraceutical

Parameter	Specification	Test Method
Appearance	Pale yellow to amber oil or beadlet powder	Visual
Assay	97.0–103.0% of stated potency (IU/g)	HPLC (UV 325 nm)
Identification	UV absorption maximum at 325 nm	UV
Refractive Index (palmitate oil)	1.473–1.482	USP <831>
Peroxide Value	"d 1 0 m E q / k g	AOCS Cd 8b-90
Heavy Metals	"d 2 0 p p m	USP <231>
Residue on Ignition	"d 0 . 1 %	USP <281>

Physical Properties

Appearance: Pale yellow to amber oily liquid (oil form) / Beadlet powder (stabilized form)

Molecular Formula: $C_{57}H_{110}O$, (palmitate)

Molecular Weight: 524.87 g/mol (palmitate)

Solubility: Practically insoluble in water; freely soluble in ethanol and vegetable oils

Melting Point: Oil form: N/A (liquid); Beadlet: depends on encapsulant

Packing: 25 kg HDPE drums; 200 kg HDPE drums; 1 kg bottles for lab use (light-protected packaging)

Storage: Store in a cool, dry, well-ventilated area away from light. Below 25°C. Protect from oxidation. Refrigerate if long-term storage.

Safety & Handling

PPE: Gloves, safety goggles, lab coat

Hazards:

- Teratogenic at very high doses
- Light and oxygen sensitive