

SPECIFICATION

Product Name: Vitamin A palmitate 1.7 IU
Chemical Formula: C ₃₆ H ₆₀ O ₂
CAS Number: 79-81-2
Molecular Weight: 524.86 g/mol
Appearance: Yellow to Brownish yellow oily liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification - A. Light Absorption	-	Complies	It exhibits a maxima at 325 to 327 nm
Identification - B. TLC	-	Complies	The principal spot or spots with test solution should correspond to reference solution.
Identification - C. Spot Test	-	Complies	A transient bright blue colour should be produced immediately.
Identification for BHA & BHT- By TLC	-	Complies	The spots obtained with test solution should correspond to reference solution with respect to R _f value & colour.
Acid value	-	0.8	Not more than 2.0
Peroxide value	-	2.4	Not more than 10.0
Peroxides	-	Complies	The colour produced by sample solution after 5 minute is not more intense than that of standard solution.
Content of Vitamin A	mIU/g	1.697 mIU/g	1.615 to 1.870 mIU/g
% of Labelled Amount (1.7)	%	99.8 %	95.0 to 110.0 %

Physical Properties

- Solubility: Practically insoluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, light-resistant container in a cool, dry place, protected from air, moisture, heat, and direct sunlight.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food fortification, infant nutrition, and animal feed applications.
- Dosage: Depends on Age and nutritional status, Intended application, Product formulation, Vitamin A potency, Regulatory requirement.

Packaging

- Standard Packing: 5 Liter Jerry can and 1 Liter or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
* Specifications are based on the manufacturer's provided specifications.