

## SPECIFICATION

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|-------------------------------------------------------------------------|
| <b>Product Name:</b> Vitamin A Palmitate Dry Powder 250 CWS             |
| <b>Chemical Formula:</b> C <sub>36</sub> H <sub>60</sub> O <sub>2</sub> |
| <b>CAS Number:</b> 79-81-2                                              |
| <b>Molecular Weight:</b> 524.87 g/mol                                   |
| <b>Appearance:</b> Free flowing very light fine yellow powder           |
| <b>Odor:</b> Odorless                                                   |

## Chemical Composition

| Parameter      | Unit   | Typical Value    | Specification (Min./Max.)     |
|----------------|--------|------------------|-------------------------------|
| Particle size  | %      | 94.37%           | ≥ 90.00% through sieve No. 40 |
| Destiny        | %      | 100.00%          | 0.50 to 0.55 gm/ml            |
| Heavy metal    | PPM    | ≤10 PPM          | ≤10 PPM                       |
| Arsenic        | PPM    | ≤1 PPM           | ≤1 PPM                        |
| Loss on drying | %      | 1.97%            | ≤8%                           |
| Assay (G.C.)   | IU/gms | 2,58,280 IU/ gms | 2,50,000 IU/gms               |

### Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in oil.

### Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.  
- Storage Conditions: Store in a cool, dry place at 15–25°C. Protect from light, heat, oxygen, and moisture. Keep the container tightly closed in the original packaging and store in a well-ventilated area to maintain product stability and potency.

### Applications

- Use: Widely used as a source of vitamin A for the fortification of foods, beverages, dietary supplements, and pharmaceutical formulations.

-Dosage: Depends on the intended formulation, vitamin A potency, and regulatory requirements. It should be used according to product formulation specifications and applicable food or pharmaceutical regulations, or as directed by a qualified healthcare professional.

**Packaging**

- Standard Packing: 25 Kgs HDPE Drum and 1 Kgs 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.

