

**iVit A Palmitate**

**INCI Name (US):** Retinyl Palmitate

**INCI Name (EU):** Retinyl Palmitate

**CAS #:** 79-81-2

**General Information/ Characteristics:** Retinyl palmitate is the ester of retinol (vitamin A) combined with palmitic acid, a saturated fatty acid and a major component of palm oil. This one of a kind liposoluble vitamin is a necessary factor for epithelial tissue cell growth and health. It can make crude and aging skin surface thin and promote cell metabolism. Additionally, it is known for its wrinkle dispelling properties as it belongs to the family of retinoids. These tiny molecules could penetrate the outer layers of the skin and work to repair the lower layers where collagen and elastin reside.

**Benefits / Application:** Skin care benefits:

- Favorable adhesion, moisturization and exfoliating effects.
- Anti-aging and lifting effects.
- Impart skin a lubricous, moist and gracious feeling.

Applications:

- Exfoliating creams/ lotions.
- Anti-aging and lifting creams, lotions and serums.
- Brightening activating serums.

**Formulations Advices:** It will be best to add BHT. The temperature is at about 60°C. Not soluble in water.

**Regulatory Status:** No specific regulations.

**Physical-Chemical Properties:**

Appearance:	Oily liquid.
Color:	Yellow.
Refractive index:	1.510-1530
Heavy metals:	≤0.002%
Relative density(g/cm <sup>3</sup> ):	0.906-0.930
Assay content(U/g):	≥1,000,000

*\*These values indicate typical specification; they are not intended to be used as product specifications*

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**Additives:** Usually, BHT(butylated hydroxyanisole) is added.

**Shelf Life / Storage Conditions:** 2- year shelf life. May crystallize on prolonged storage.

**Packaging:** Packing in carton, inner sealed with 5kg\*2 plastic buckets.

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