

## Vitamin A (retinyl palmitate)

### Specification Sheet

**Description:** GMO-free, highly active, fat-soluble vitamin with various effects on skin (synonym: vitamin A palmitate). Activity 1.7 MIU/g. Contains vitamin E (tocopherol) as antioxidant.

**CAS:** 79-81-2, 10191-41-0

**INCI Name:** retinyl palmitate, tocopherol

**Composition:** retinyl palmitate, tocopherol

**Appearance:** Golden oily liquid, faint odor

**Benefits:**

- Has potent rejuvenating properties
- Can improve appearance of aged and blemished skin
- Ideal for advanced treatment of pre-conditioned skin

**Use:** Product crystallizes and becomes solid when refrigerated (recommended for storage); put in warm water-bath to melt. Can be added to formulas as is (as last ingredient), usual final concentration 500-20'000 IU/g (1g = 20 drops = 1.7 Mio units); Example: 10 drops vitamin A per 100g (3.5oz) cream gives 8'500 IU/g. Press out/suck out air after use, or use up at low level. For external use only.

**Applications:** All kinds of skin care products (primarily rejuvenating, nourishing & after sun products).

**Solubility:** Slightly soluble in alcohol, miscible in oils, insoluble in water

**Preservation:** Vitamin E tocopherol (antioxidant)

**Storage:** Store refrigerated (4-8°C / 39-46°F)

**Country of Origin:** Switzerland

**Raw material source:** Retinyl acetate and palmitic acid

**Manufacture:** Retinyl palmitate is produced by transesterificating palmitic acid (a fatty acid) to retinyl acetate which is made from retinal. Retinal is synthesized from beta-carotene.



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**Animal Testing:** Not animal tested

**GMO:** GMO-free (does not contain plant-derived components)

**Vegan:** Does not contain animal-derived components

**HS Code:** 2936210000

**Proposition 65:** Under California's Safe Drinking Water and Toxic Enforcement Act, better known as OEHHA Prop 65, we are required to place a warning to this product since the OEHHA believes that retinol/retinyl esters may cause reproductive harm (e.g. interference in female/male reproduction or embryonal development), when in daily dosages in excess of 10,000 IU or 3,000 retinol equivalents. Importantly, retinol/retinyl esters are still required and essential for maintenance of normal reproductive function. Recommended daily level during pregnancy is 8000 IU. **WARNING:** This product contains retinol/retinyl esters with >10,000 IU, a chemical known to the State of California to cause reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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