

**TECHNICAL DATA SHEET**Effective date: 12.2021
Rev.3

Vitamin A (retinyl palmitate)

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Retinyl palmitate, Helianthus annuus seed oil, Tocopherol
Ingredients	Vitamin A palmitate, DL-alpha tocopherol, the assay is adjusted by adding pharmaceutical grade sunflower oil.
Chemical name of active ingredients	Retinyl palmitate, all trans retinol palmitic acid ester

TECHNICAL DATA**Physical parameters**

Appearance	Viscous liquid
Color	Yellow
Odor	Characteristic
Solubility	Soluble in hydrocarbons, chlorinated hydrocarbons, ether, fats and oil, insoluble in water. The solvent should not contain peroxides.
Units	1 international unit (IU)=0.550 µg vitamin A palmitate
Assay	Min. 1.0 million IU vitamin A (=300,000 RE) per gram
Retinyl palmitate	content 55.0-60.5% Ph.Eur./USP/FCC III
Sunflower oil	content 30-50% Ph.Eur
Vitamin E	content max. 2% Ph.Eur./USP/FCC/E 307

Chemical parameters

Chemical formula	C ₃₆ H ₆₀ O ₂
Molar mass	524.9 g/mol

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	As Vitamin A is sensitive to atmospheric oxygen, light, moisture and heat it should be stored in unopened packaging, in a cool (max. 15°C), dry place. At the recommended storage temperatures, some of the vitamin A-palmitate may crystallize. Prior to use the product must be heated to 40°C in the unopened container and homogenized.
Shelf Life	36 months, in closed packaging and the recommended conditions.
Custom tariff	-

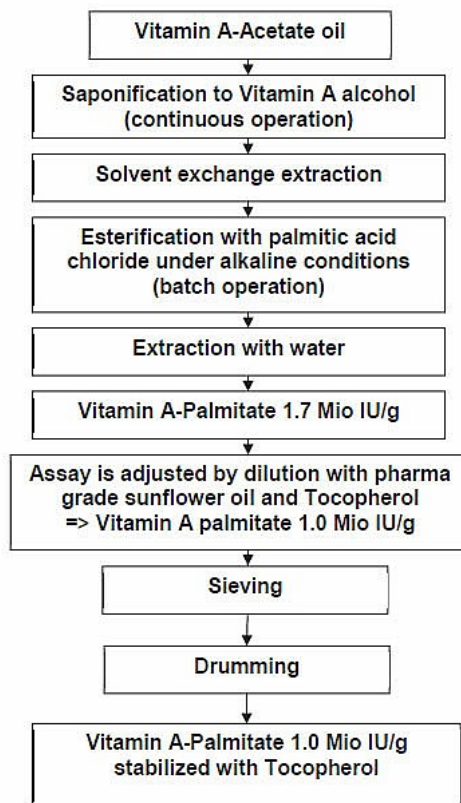


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MANUFACTURING FLOW CHART



LEGISLATION

Certification	-
Food grade	The product is suitable to be used in food in accordance with CE Reg. 1334/2008
Kosher	The product is Kosher
Monographs	The product complies with the current "vitamin A concentrate, oily form, synthetic", Ph. Eur., "vitamin A" USP, FCC III and "vitamin A concentrate oil" IP monographs
Regulations	The product meets the regulatory requirements for vitamin A source in most countries. However, regulations on the ingredients used in the respective countries and for the intended use have to be observed.
EINECS	201-228-5
CAS	79-81-2
REACH pre-registration no.	-



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