

Dry Vitamin A Acetate 500

Human Nutrition

 **BASF**
The Chemical Company

Chemical names

Retinyl acetate, all-trans retinol acetic acid ester

CAS No.	127-47-9
EINECS No.	204-844-2

Product numbers

40-mesh:	10302963
60-mesh:	10303064

Description

Free-flowing, light yellow powder, consisting of spherical particles.

Composition

The powder particles contain vitamin A acetate in droplets of 1-2 µm embedded in a matrix of gelatin and sucrose, coated with modified starch. The products contain t-butylhydroxytoluene (BHT, E 321) as antioxidant and sodium aluminium silicate (E 554) as an anti-caking agent.

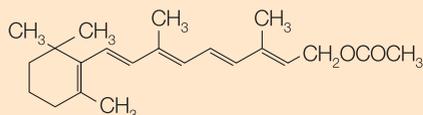
Solubility

Dispersible in warm water (35-40°C), to form a milky emulsion.

Specifications

Appearance:	conforms
Assay:	min. 500,000 IU vitamin A (= 150,000 RE) per gram
Loss on drying:	max. 5% (4 hours at 105°C)

Vitamin A acetate



$C_{22}H_{32}O_2$ Molar mass 328.5 g/mol

Monographs

The product complies with the current "Vitamin A concentrate (powder form), synthetic" Ph.Eur. and "Vitamin A" USP monographs.

Particle-size distribution

40-mesh:
100% smaller than 850 µm (20 mesh USP)
min. 95% smaller than 425 µm (40 mesh USP)
max. 10% smaller than 180 µm (80 mesh USP)

60-mesh:
100% smaller than 600 µm (30 mesh USP)
min. 90% smaller than 300 µm (50 mesh USP)
max. 10% smaller than 150 µm (100 mesh USP)

Bulk density

Approx. 0.6 g/ml

Stabilization/Stability

The product is stabilized with BHT (E 321). The stability of vitamin A in the dry powder is excellent even in the presence of minerals. The product has a high mechanical integrity and little or none of the vitamin A is expressed during tableting, resulting in good stability of the tablets.

Stored in the original packaging in a cool (8-15°C), dry place, the product is stable for at least 24 months.

Standard packaging

5 and 25 kg.

Please see appendix I for further information.

Storage

As vitamin A is sensitive to atmospheric oxygen, light, moisture and heat, the products should be stored in the original packaging in a cool (8-15°C), dry place.

Applications

Dietary supplements:

Because of its excellent tableting properties, this product is suitable for direct compression. It has been especially developed for use in high-dosage vitamin A tablets, multivitamin/mineral tablets and hard gelatin capsules.

Note

Dry Vitamin A Acetate 500 must be handled in accordance with the Safety Data Sheet.

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests: neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.
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