THD Ascorbate

Tetrahexyldecyl ascorbate is an oil-soluble vitamin C derivative used in cosmetic formulation development. Review identity, assay and oxidation-related specifications, and evaluate it in the intended oil phase or emulsion.

Material identity

Ingredient identity	Tetrahexyldecyl Ascorbate
CAS reference	183476-82-6
Catalog appearance	Colorless to pale yellow oil

Catalog technical specifications

The following are published catalog reference specifications, not analytical results for a supplied lot. Confirm the current specification, method and batch COA before approval.

Assay (HPLC)	>= 99.0%
Peroxide value	<= 3.0 meq/kg
Acid value	<= 1.0 mg KOH/g
Heavy metals (Pb)	<= 10 ppm
Microbial	TPC <= 100 CFU/g
Iodine value	Documented per lot
Shelf life	24 months, nitrogen-flushed

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Selection and qualification

What to check for this grade

01. Confirm the exact derivative identity rather than purchasing by the generic name vitamin C.

02. Review assay, appearance, acid value and peroxide value with the applicable test methods.

03. Validate processing, storage and packaging in the complete formulation; derivative stability is system dependent.

THD ascorbate vs L-ascorbic acid

These are distinct ingredients with different formulation behavior; compare solubility and complete-formula requirements rather than transferring use levels or claims.

Is THD ascorbate the same material as ascorbic acid?

No. Request the exact chemical identity and grade documents. Processing instructions, use levels and claims for another vitamin C form should not be transferred without evaluation.

Prepare the sample and purchasing brief

Provide the intended formula format, destination market, trial quantity and acceptance criteria. Request the current COA, SDS and TDS, full composition, and relevant storage and handling instructions. Confirm pricing, order minimum, stock, packaging and delivery terms for the actual order.

Catalog handling reference

Packaging	1kg / 5kg aluminum, N2
Storage	<= 20°C
Shelf life	24 months, nitrogen-flushed

Product details and current enquiry options

Cosmetic raw material buying guide

Contact RAWESS about this grade

For ingredient evaluation in cosmetic development. This guide is not a batch COA or a finished-product safety, efficacy or regulatory approval. Trade-name comparisons do not establish branded origin.

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