

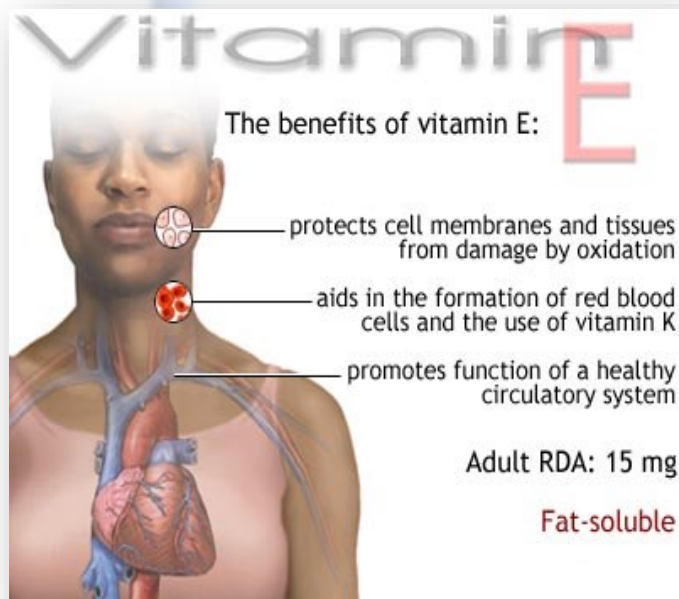
# Vitamin E Acetate

INCI Name: DL-Alpha Tocopheryl Acetate

CAS Numbers: 7695-91-2

## Description:

Vitamin E Acetate is the stable form of Vitamin E most often used in cosmetic formulations for its skin care benefits. Vitamin E protects cell membranes from damage by oxygen free radicals. It can prevent premature aging of the skin induced by UV irradiation and lipid peroxidation.



Tocopheryl acetate is bio converted to its biologically active form, vitamin E, within the skin when applied topically. Studies show that topical use of tocopherol and alpha tocopheryl acetate are more effective than dietary supplementation in increasing the vitamin E content of the skin. Supported by numerous studies over the past few years, Vitamin E Acetate has been shown to increase the enzyme activity in the skin, prevent free radical induced skin damage, increase epithelization of surface wounds and increase the

## Applications:

Vitamin E Acetate is used in cosmetic applications to repair skin from damage from elements and increase moisture. It is found in body lotions, skin and face creams, shave balm, hand creams, foundation and lipstick to name a few.



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## Technical Data:

| Test                                  | Specification  |
|---------------------------------------|--|
| Description                           | Clear, colorless or slightly greenish yellow, Viscous, Oily liquid |
| <b>Identification</b>                 |  |
| Optical Rotation                      | -0.01°~+0.01°, EP  |
| IR                                    | To Conform, EP/USP/FCC   |
| TLC                                   | To Conform   |
| Color Reaction                        | To Conform, USP/FCC  |
| Retention Time, GC                    | To Conform, USP/FCC  |
| Assay                                 | 96.5%~102.0%, EP   |
| <b>Related Substances</b>             |  |
| Impurity A                            | ≤0.5%, EP  |
| Impurity B                            | ≤1.5%, EP  |
| Impurity C                            | ≤0.5, EP   |
| Impurities D & E                      | ≤1.0%, EP  |
| Any Other Impurity                    | ≤0.25%, EP   |
| Total Impurities                      | ≤2.5%, EP  |
| Acidity                               | ≤1.0ml, USP/FCC  |
| Residual Solvents:Isobutyl Acetate    | ≤0.5%, In house  |
| Heavy Metals:Pb                       | ≤2 mg/kg, FCC  |
| <b>Microbiological Tests</b>          |  |
| Total Aerobic Microbial Count         | ≤1000 cfu/g, EP/USP  |
| Total Yeast and molds Count           | ≤100 cfu/g, EP/USP   |
| Escherichia Coli                      | n.d./g, EP/USP   |
| Salmonella                            | n.d/10g, EP/USP  |
| Pseudomonas Aeruginosa                | n.d./g, EP/USP   |
| Staphylococcus Aereus                 | n.d./g, EP/USP   |
| Bile -Tolerant Gram-Negative Bacteria | n.d./g, EP/USP   |
| Arsenic                               | ≤1 mg/kg, In house   |
| Copper                                | ≤25 mg/kg, In house  |
| Zinc                                  | ≤25 mg/kg, In house  |



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