

## SPECIFICATION

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| <b>Product Name:</b> Vitamin E Acetate NHU (Liquid)                                              |
| <b>Chemical Formula:</b> C <sub>31</sub> H <sub>52</sub> O <sub>3</sub>                          |
| <b>CAS Number:</b> 7695-91-2                                                                     |
| <b>Molecular Weight:</b> 472.74 g/mol                                                            |
| <b>Appearance:</b> Clear, colourless to slightly yellow or greenish-yellow, viscous, oily liquid |
| <b>Odor:</b> Odorless                                                                            |

## Chemical Composition

| Parameter                              | Unit  | Typical Value | Specification (Min/Max)                |
|----------------------------------------|-------|---------------|----------------------------------------|
| Assay                                  | %     | 98.8%         | ≥98.0%                                 |
| Identification A, B, C                 | -     | Correspond    | Conform                                |
| Related substances (GC)                |       |               |                                        |
| Impurity A:                            | %     | 0.17%         | ≤0.5%                                  |
| Impurity B:                            | %     | 0.81%         | ≤1.5%                                  |
| Impurity C(tocopherol):                | %     | 0.26%         | ≤0.5%                                  |
| Sum of impurity D and E:               | %     | 0.05%         | ≤1.0%                                  |
| Any other impurity, for each impurity: | %     | Max:0.06%     | ≤0.25%                                 |
| Total impurities:                      | %     | 1.4%          | ≤2.5%                                  |
| Optical rotation                       | °     | 0°            | -0.01° to + 0.01°                      |
| Acidity                                | ml    | 0.062ml       | NMT 1.0 mL of 0.10 N sodium hydroxide. |
| Sulphated ash                          | %     | <0.10%        | ≤0.10%                                 |
| Heavy Metals                           | mg/kg | <10 mg/kg     | ≤10mg/kg                               |
| Lead                                   | mg/kg | <0.5mg/kg     | ≤0.5mg/kg                              |
| Arsenic                                | mg/kg | <1mg/kg       | ≤1mg/kg                                |
| Residual solvents                      | -     | Conform       | Meet the requirement                   |

### **Physical Properties**

- Solubility: Partially insoluble in water. Soluble in acetone. Soluble in chloroform. Soluble in ether. Soluble in ethanol.

### **Shelf Life & Storage**

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, airtight container in a cool, dry, and well-ventilated place, protected from light, heat, moisture, and air.

### **Applications**

- Use: Widely used in pharmaceutical, nutraceutical, food, feed, cosmetic, and personal care applications. It is valued for its antioxidant properties and nutritional benefits.
- Dosage: Depends on Intended application, Product formulation, Regulatory requirements, Age and nutritional status, Target Vitamin E potency.

### **Packaging**

- Standard Packing: 20 Kgs Steel Drum or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

\* Specifications are based on the manufacturer's provided specifications.