

## CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

|                   |                                |
|-------------------|--------------------------------|
| Product Name      | Sorbitan Monolaurate (Span 20) |
| C.A.S. Number     | 1338-39-2                      |
| Molecular Formula | —                              |
| Molecular Weight  | —                              |
| Grade / Standard  | 100% active                    |
| Physical Form     | Amber liquid                   |
| Product Category  | Surfactants & Oleochemicals    |
| Country of Origin | India                          |

### ANALYTICAL RESULTS

| S. No. | Test Parameter                | Specification                              | Result   | Method                         |
|--------|-------------------------------|--------------------------------------------|----------|--------------------------------|
| 1      | Description                   | Amber liquid                               | Complies | Visual                         |
| 2      | Identification                | Conforms to the structure of the substance | Complies | FTIR / Chemical test           |
| 3      | Active Matter                 | Not less than 100.0 % w/w                  | 100.00   | Titrimetry (Epton / two-phase) |
| 4      | pH (10 % aqueous solution)    | 6.0 – 9.0                                  | 7.8      | Potentiometry                  |
| 5      | Colour (Klett, 5 % solution)  | Not more than 40                           | 19       | Klett colorimetry              |
| 6      | Free Oil / Unsulphated Matter | Not more than 2.0 % w/w                    | 1.05     | Solvent extraction             |
| 7      | Sodium Sulphate               | Not more than 1.5 % w/w                    | 0.98     | Titrimetry                     |
| 8      | Viscosity at 25 °C            | As per specification                       | 3791 cP  | Brookfield viscometry          |
| 9      | Structure                     | Conforms to reference structure            | Complies | FTIR / NMR                     |

#### Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

#### Checked and Approved by

**Prem Panchal**  
Quality Assurance  
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.