

## Certificate of Analysis

Date of Testing: 2023-03-10 18:35:22

Date of Next Testing: 2027-03-09 18:35:22

Product Name: **Span 20**

CAS Number: 1338-39-2

Specifications & Purity: non-ionic

Lot #: B2327881

SKU #: **S102859**

**Analysis: 159527**

| Parameter                                      | Limit Values                  | Result                        |
|--|-------------------------------|-------------------------------|
| Water by Karl Fischer                          | 0-1.5 (%)                     | 1.03 %                        |
| Refractive index n <sub>20</sub> /D            | 1.473-1.476                   | 1.48                          |
| Acid Value                                     | ≤8 (mgKOH/g)                  | 5.17 mgKOH/g                  |
| Heavy metals                                   | 0-0.001 (%)                   | 0.00 %                        |
| Saponification value                           | 160-175 (mgKOH/g)             | 161.53 mgKOH/g                |
| Ignition Residue (as sulfate)                  | 0-0.5 (%)                     | 0.33 %                        |
| Hydroxy Value                                  | 330-360 (mgKOH/g)             | 333.45 mgKOH/g                |
| Appearance (S102859)                           | Yellow to Yellow-Green Liquid | Yellow to Yellow-Green Liquid |
| Solubility in EtOH , Clear,no black insolubles | pass                          | Pass                          |



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