

## POLİSORBAT 80 ANALİZ SERTİFİKASI

**Product Name :** Polisorbat 80

**Cas Number :** 9005-65-6

**Molecular Formula :** C<sub>24</sub>H<sub>44</sub>O<sub>6</sub>

| Parameters                               | Results                      | Specification                                                                                                                            |
|------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                               | Brownish yellow clear liquid | Oily, colourless or brownish- yellow, clear or slightly opalescent liquid                                                                |
| Solubility                               | Complies                     | Dispersible in water, in anhydrous ethanol, in ethyl acetate and in methanol, practically insoluble in fatty oils and in liquid paraffin |
| Relative density                         | 1.087                        | About 1.10                                                                                                                               |
| Viscosity at 25°C                        | 396.35 mPa.s                 | About 400mPa.s                                                                                                                           |
| Identification                           |                              |                                                                                                                                          |
| a. Infrared absorption spectrophotometry | Complies                     | Spectrum of sample should be concordant to Ph. Eur. Reference spectrum of polysorbate 80                                                 |
| b. Composition of fatty acids            | Complies                     | Should comply with test for fatty acid composition                                                                                       |
| c. Hydroxyl value                        | Complies                     | Should comply with test for hydroxyl value                                                                                               |
| d. Saponification value                  | Complies                     | Should comply with test for saponification value                                                                                         |
| e. Chemical test                         | Complies                     | The solution should turn blue                                                                                                            |
| Acid Value                               | 0.56                         | Max. 2.0                                                                                                                                 |
| Hydroxyl Value                           | 73.59                        | 65- 80                                                                                                                                   |
| Peroxide Value                           | 3.92                         | Max. 10.0                                                                                                                                |
| Saponification Value                     | 47.40                        | 45- 55                                                                                                                                   |
| Composition of fatty acids               |                              |                                                                                                                                          |
| a. Myristic acid                         | Nil                          | Max. 5.0%                                                                                                                                |
| b. Palmitic acid                         | 7.08 %                       | Max. 16.0%                                                                                                                               |
| c. Palmitoleic acid                      | Nil                          | Max. 8.0%                                                                                                                                |
| d. Stearic acid                          | 1.81 %                       | Max. 6.0%                                                                                                                                |
| e. Oleic acid                            | 77.21 %                      | Min. 58.0%                                                                                                                               |
| f. Linoleic acid                         | 11.98 %                      | Max. 18.0%                                                                                                                               |
| g. Linolenic acid                        | 0.25%                        | Max. 4.0%                                                                                                                                |
| Ethylene oxide content                   | Less than 1 ppm              | Max. 1 ppm                                                                                                                               |
| Dioxan content                           | Less than 10 ppm             | Max. 10 ppm                                                                                                                              |
| Water Content                            | 1.66 %                       | Max. 3.0%                                                                                                                                |
| Total ash                                | 0.02%                        | Max. 0.25%                                                                                                                               |

**Not:** Bu belge üzerindeki spesifikasyonlar, üretici tarafından yapılan analiz sonuçlarındaki değerlerle bire bir aynıdır.