

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-16 18:26:44
Date of Next Testing: 2030-05-15 18:26:44
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: E2613091
SKU #: **T104863**
Version: **1**
Analysis #: **700299**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.33280 %
Acid Value	0-2.2 (mg/g)	1.11000 mg/g
Density (25°C)	1.08-1.12	1.10200
Residual Ethylene	0-1 (ppm)	1.00000 ppm
Viscosity(25 °C, neat)	275-480 (cP)	470.00000 cP
Hydroxy Value	96-108 (mgKOH/g)	96.20000 mgKOH/g
Dioxane Content	0-10 (ppm)	8.00000 ppm
Saponification value	40-50 (mg/g)	40.20000 mg/g
Appearance (T104863)	Yellow oily liquid	Yellow oily liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager