

Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2024-10-19 15:44:30
Date of Next Testing: 2028-10-18 15:44:30
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: J2412187
SKU #: **T104863**
Version: **1**
Analysis #: **335163**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.50000 %
Acid Value	0-2.2 (mg/g)	0.20000 mg/g
Residual Ethylene	0-1 (ppm)	0.00000 ppm
Hydroxy Value	96-108 (mgKOH/g)	98.10000 mgKOH/g
Dioxane Content	0-10 (ppm)	0.00000 ppm
Saponification value	40-50 (mg/g)	43.90000 mg/g
Viscosity(25 °C, neat)	275-480 (cP)	305.00000 cP
Density (25°C)	1.08-1.12	1.08000
Appearance (T104863)	Yellow oily liquid	Yellow oily liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager