

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

Certificate of Analysis

Date of Testing: 2024-05-25 13:20:40
Date of Next Testing: 2028-05-24 13:20:40
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: E2416366
SKU #: **T104863**
Version: **1**
Analysis #: **356697**
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
Hydroxy Value	96-108 (mgKOH/g)	98.10000 mgKOH/g
Saponification value	40-50 (mg/g)	43.90000 mg/g
Residual Ethylene	0-1 (ppm)	1.00000 ppm
Viscosity(25 °C,neat)	275-480 (cP)	300.00000 cP
Dioxane Content	0-10 (ppm)	1.00000 ppm
Density (25°C)	1.08-1.12	1.09000
Appearance (T104863)	Yellow oily liquid	Yellow oily liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager