

Certificate of Analysis

Date of Testing: 2024-09-03 19:33:30
Date of Next Testing: 2028-09-02 19:33:30
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: H2430426
SKU #: **T104863**
Version: **1**
Analysis #: **268134**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.41 %
Acid Value	0-2.2 (mg/g)	0.50 mg/g
Residual Ethylene	0-1 (ppm)	0.20 ppm
Hydroxy Value	96-108 (mgKOH/g)	100.70 mgKOH/g
Dioxane Content	0-10 (ppm)	1.00 ppm
Saponification value	40-50 (mg/g)	42.80 mg/g
Viscosity(25 °C, neat)	275-480 (cP)	470.00 cP
Density (25°C)	1.08-1.12	1.08
Appearance (T104863)	Yellow oily liquid	Yellow oily liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager