

Certificate of Analysis

Date of Testing: 2024-04-13 10:08:07
Date of Next Testing: 2028-04-12 10:08:07
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: D2410318
SKU #: **T104863**
Analysis: **335163**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.50 %
Acid Value	0-2.2 (mg/g)	0.20 mg/g
Residual Ethylene	0-1 (ppm)	0.00 ppm
Hydroxy Value	96-108 (mgKOH/g)	98.10 mgKOH/g
Dioxane Content	0-10 (ppm)	0.00 ppm
Saponification value	40-50 (mg/g)	43.90 mg/g
Viscosity(25 °C, neat)	275-480 (cP)	305.00 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