

Certificate of Analysis

Date of Testing: 2024-02-04 15:49:39
Date of Next Testing: 2028-02-03 15:49:39
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: B2401225
SKU #: **T104863**
Analysis: **318147**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.23 %
Acid Value	0-2.2 (mg/g)	0.60 mg/g
Residual Ethylene	0-1 (ppm)	0.00 ppm
Hydroxy Value	96-108 (mgKOH/g)	99.90 mgKOH/g
Dioxane Content	0-10 (ppm)	0.00 ppm
Saponification value	40-50 (mg/g)	42.60 mg/g
Viscosity(25 °C, neat)	275-480 (cP)	310.00 cP
Density (25°C)	1.08-1.12	1.09
Appearance (T104863)	Yellow oily liquid	Yellow oily liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager