

Certificate of Analysis

Date of Testing: 2022-03-19 11:15:44
Date of Next Testing: 2026-03-18 11:15:44
Product Name: **TWEEN® 20**
CAS Number: 9005-64-5
Specifications & Purity: viscous liquid
Lot #: C2208082
SKU #: **T104863**
Analysis: **083431**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.50 %
Acid Value	0-2.2 (mg/g)	0.30 mg/g
Residual Ethylene	0-1 (ppm)	0.50 ppm
Viscosity(25 °C, neat)	275-480 (cP)	330.00 cP
Hydroxy Value	96-108 (mgKOH/g)	98.40 mgKOH/g
Dioxane Content	0-10 (ppm)	1.00 ppm
Saponification value	40-50 (mg/g)	41.30 mg/g
Density (25°C)	1.08-1.12	1.10
Appearance (T104863)	Yellow oily liquid	Yellow oily liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager