

Certificate of Analysis

Date of Testing: 2024-10-19 14:42:09

Date of Next Testing: 2028-10-18 14:42:09

Product Name: **TWEEN® 20**

CAS Number: 9005-64-5

Specifications & Purity: viscous liquid

Lot #: J2412189

SKU #: **T104863**

Version: **1**

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



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QA & QC Manager