

Certificate of Analysis

Date of Testing: 2024-01-11 14:27:40

Date of Next Testing: 2028-01-10 14:27:40

Product Name: **Span 20**

CAS Number: 1338-39-2

Specifications & Purity: non-ionic

Lot #: A2405403

SKU #: **S102859****Analysis: 207691**

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	0.28 %
Refractive index n ₂₀ /D	1.473-1.476	1.48
Acid Value	≤8 (mgKOH/g)	2.88 mgKOH/g
Heavy metals	0-0.001 (%)	0.00 %
Saponification value	160-175 (mgKOH/g)	171.45 mgKOH/g
Ignition Residue (as sulfate)	0-0.5 (%)	0.28 %
Hydroxy Value	330-360 (mgKOH/g)	354.70 mgKOH/g
Appearance (S102859)	Yellow to Yellow-Green Liquid	Yellow to Yellow-Green Liquid
Solubility in EtOH , Clear,no black insolubles	pass	Pass

John Su
QA & QC Manager