

Certificate of Analysis

Date of Testing: 2022-02-11 09:49:15

Date of Next Testing: 2026-02-10 09:49:15

Product Name: **Span 20**

CAS Number: 1338-39-2

Specifications & Purity: non-ionic

Lot #: B2207497

SKU #: **S102859****Analysis: 066438**

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	0.20 %
Refractive index n ₂₀ /D	1.473-1.476	1.48
Acid Value	≤8 (mgKOH/g)	4.03 mgKOH/g
Hydroxy Value	330-360 (mgKOH/g)	340.87 mgKOH/g
Heavy metals	0-0.001 (%)	0.00 %
Saponification value	160-175 (mgKOH/g)	166.19 mgKOH/g
Ignition Residue (as sulfate)	0-0.5 (%)	0.30 %
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