

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-12 17:10:39

Date of Next Testing: 2026-07-11 17:10:39

Product Name: **Span 20**

CAS Number: 1338-39-2

Specifications & Purity: non-ionic

Lot #: F2215304

SKU #: **S102859****Analysis: 085355**

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	1.15 %
Refractive index n ₂₀ /D	1.473-1.476	1.47
Acid Value	≤8 (mgKOH/g)	4.87 mgKOH/g
Hydroxy Value	330-360 (mgKOH/g)	332.42 mgKOH/g
Heavy metals	0-0.001 (%)	0.00 %
Saponification value	160-175 (mgKOH/g)	169.99 mgKOH/g
Ignition Residue (as sulfate)	0-0.5 (%)	0.41 %
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