

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-18 09:54:48

Date of Next Testing: 2027-05-17 09:54:48

Product Name: **Span® 80**

CAS Number: 1338-43-8

Specifications & Purity: nonionic surfactant

Lot #: E23061264

SKU #: **S110839**

Version: **4**

Analysis #: **215224**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Hydroxy Value	193-209 (mgKOH/g)	202.80000 mgKOH/g
Purity(GC)(Oleic Acid)	60-100 (%)	85.30000 %
Acid Value	5.5-7.5 (mgKOH/g)	6.51000 mgKOH/g
Water by Karl Fischer	0-1 (%)	0.18120 %
Saponification value(KOH)	145-160 (mgKOH/g)	152.40000 mgKOH/g
Appearance (S110839)	Clear Yellow Viscous Liquid	Clear Yellow Viscous Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Residues	Primarily Linoleic, Linolenic and Palmitic Acids	Primarily Linoleic, Linolenic and Palmitic Acids
Solubility, colorless or yellow, clear(50mg/ml, ethanol)	pass	Pass



John Su
QA & QC Manager