

Certificate of Analysis

Date of Testing: 2023-05-23 11:25:59

Date of Next Testing: 2027-05-22 11:25:59

Product Name: **Tween™ 60**

CAS Number: 9005-67-8

Specifications & Purity: nonionic detergent

Lot #: E23061242

SKU #: **T112750**

Analysis: 226980

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.40 %
Saponification value	45-55 (mgKOH/g)	49.82 mgKOH/g
loss on Ignition	0-0.25 (%)	0.10 %
Palmitic Acid	≥35 (%)	36.50 %
Acid Value	0-2 (mgKOH/g)	0.92 mgKOH/g
Hydroxy Value	81-96 (mgKOH/g)	95.98 mgKOH/g
Stearic acid	≥47 (%)	47.80 %
Appearance (T112750)	White to Yellow, Yellow-Green Liquid or Semi-solid	White to Yellow, Yellow-Green Liquid or Semi-solid
Solubility in H ₂ O , Colorless to Yellow-Green, Clear to Hazy, 100mg/ml	pass	Pass



John Su
QA & QC Manager