

## Certificate of Analysis

Date of Testing: 2022-11-03 15:47:43

Date of Next Testing: 2026-11-02 15:47:43

Product Name: **Tween™ 60**

CAS Number: 9005-67-8

Specifications & Purity: nonionic detergent

Lot #: J2227230

SKU # **T112750**

**Analysis: 147096**

Parameter	Limit Values	Result
Water by Karl Fischer	0-3 (%)	2.32 %
Saponification value	45-55 (mgKOH/g)	48.20 mgKOH/g
loss on Ignition	0-0.25 (%)	0.16 %
Palmitic Acid	≥35 (%)	37.62 %
Acid Value	0-2 (mgKOH/g)	0.50 mgKOH/g
Hydroxy Value	81-96 (mgKOH/g)	85.60 mgKOH/g
Stearic acid	≥47 (%)	49.82 %
Appearance (T112750)	White to Yellow, Yellow-Green Liquid or Semi-solid	White to Yellow, Yellow-Green Liquid or Semi-solid
Solubility in H <sub>2</sub> O , Colorless to Yellow-Green, Clear to Hazy, 100mg/ml	pass	Pass



John Su  
QA & QC Manager