

## Certificate of Analysis

Item Number	Product Description	Lot Number
CPB-P20390-500ML	CHEMPURE Tween 80, 500 ML	171897-199712
Formula	Molecular Weight	CAS Number
		9005-65-6

**QC TEST/RELEASE DATE:** 05/11/2023

**SUGGESTED RETEST DATE:** 03/25/2025

S.No	Test	Unit	Specifications	Test Value
1	Appearance		Yellow - amber clear liquid	passed
2	1,4-Dioxane	ppm	≤ 1	< 1.0
3	Acid Value	mgKOH/g	≤ 2.0000	0.400
4	Heavy Metals	ppm	≤ 10	< 10
5	Hydroxyl Value	mgKOH/g	65.00 - 80.00	69.30
6	P.O.E	%	65.0 - 69.5	69.1
7	Residue after Ignition	%	≤ 0.250	0.077
8	Saponification Value	mgKOH/g	45.00 - 55.00	48.50
9	Specific Gravity		1.0600 - 1.0900	1.0760
10	Viscosity (25 °C)	cSt	300.0 - 500.0	444.5
11	Water	%	≤ 3.0	2.13
12	BSE/TSE Free		BSE/TSE Free	passed
13	Country of Origin		Report	USA

This is to certify that samples of the lot number above were tested and found to comply with the stated specifications. Some or all data have been provided by vendors/third parties. ChemPure Brand Chemicals expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular use or purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in research and further manufacturing only. **NOT FOR DIRECT USE IN FOOD, DRUG, HUMANS, ANIMALS OR MEDICAL DEVICES.** Persons using this information should make their own determination regarding its suitability for their particular use.

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