

PT. SMART-LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS



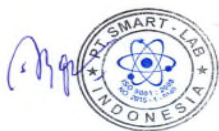
CERTIFICATE OF ANALYSIS

Product Name	: Tween 20	Molecular Weight	: 1227.72 g/mol
Catalog No.	: A 1102	Batch No.	: 110212031901
Grade	: Laboratory Reagent	Manufacturing Date	: March 12 ,2019
Formula	: $C_{58}H_{114}O_{26}$	Expire Date	: March , 2023
Cas No	: 9005-64-5		

NO.	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	–	pale yellow to amber color viscous liquid	Yellow color viscous liquid
2.	Hydroxyl number	(mg KOH/g)	97 - 113	98.76
3.	Saponification Value	(mg KOH/g)	40 - 51	41.52
4.	Density (d 20°/4°C)	g/ml	1.105 - 1.107	1.105

Result : The above product corresponds to LR, ACS Grade

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SUDIRO S.Si.
Head QC