

## CERTIFICATE OF ANALYSIS

Product : **TWEEN 20**  
(POLYOXYETHYLENESORBITAN MONOOLEATE)  
Product number : P1362  
Batch number : 016189  
Date of analysis : 19-03-2021  
Date of expiry : 31-03-2024  
  
Packaging and storage : in a well-closed container

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	oily yellow or brownish-yellow, clear or slightly opalescent liquid	clear yellow liquid		
Acid value	≤ 2.0	1.1	mg KOH	
Hydroxyl value	96 – 108	103	mg KOH	
Peroxide value	≤ 5	1	meq/kg	
Saponification value	40 – 50	45	mg KOH	
Ethylene oxide	≤ 1	complies	ppm	GC
Dioxan	≤ 1	complies	ppm	GC
Sulphated ash	≤ 0.25	0.11	%	
Water	2.5 – 3.0	2.9	%	

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

drs. M. van Wissen, pharmacist  
Department of Quality Control Duchefa B.V.

Date: 18-05-2021



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.

Duchefa Biochemie B.V.