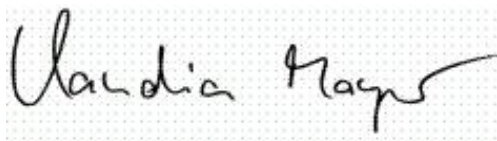


Certificate of Analysis

Product Name: Phenolphthalein solution
0.5wt. % 50 wt. % ethyl alcohol
Product Number: 319236
Batch Number: STBJ5862
Brand: Sigma-Aldrich
CAS Number: 77-09-8
Formula: $C_{20}H_{14}O_4$
Formula Weight: 318.32
Quality Release Date: 21 JAN 2020

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	LIQUID	LIQUID
PH-TRANSITION	8.0	8.0
COLOR	COLORLESS	COLORLESS
PH-TRANSITION	8.2	8.2
COLOR	FAINT PINK	FAINT PINK
PH-TRANSITION	8.6	8.6
COLOR	PINK	PINK
PH-TRANSITION	10.0	10.0
COLOR	RED	RED



Claudia Mayer
Manager Quality Control
Steinheim, Germany

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.