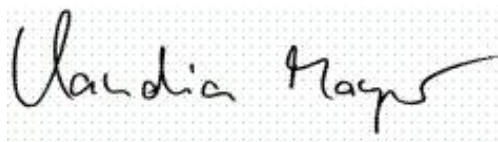


Certificate of Analysis

Product Name: Phenol
puriss. p.a., ACS reagent, reag. Ph. Eur., 99.0-100.5 %
Product Number: 33517
Batch Number: STBJ5347
Brand: Sigma-Aldrich
CAS Number: 108-95-2
Formula: C₆H₅OH
Formula Weight: 94.11
Quality Release Date: 02 JAN 2020
Recommended Retest Date: DEC 2022

TEST	SPECIFICATION	RESULT
ASSAY	99.0 - 100.5 %	> 99.9 %
PURITY (GC AREA %)	99.5 - 100.5 %	> 99.9 %
GC MINOR COMPONENT 1 (AREA %)	≤ 0.05 %	< 0.05 %
GC MINOR COMPONENT 2 (AREA %)	≤ 0.05 %	< 0.05 %
GC MINOR COMPONENT 3 (AREA %)	≤ 0.05 %	< 0.05 %
MINOR COMPONENT 1	O-CRESOL	O-CRESOL
MINOR COMPONENT 2	M-CRESOL	M-CRESOL
MINOR COMPONENT 3	P-CRESOL	P-CRESOL
FREEZING POINT	≥ 40.5 DEG C	40.9 DEG C
SOLUBILITY (COLOR)	COMPLYING	COMPLYING
SOLUBILITY (TURBIDITY)	COMPLYING	COMPLYING
WATER	≤ 0.2 %	< 0.1 %
RESIDUE (EVAPORATION)	≤ 0.01 %	≤ 0.01 %
ACIDITY	COMPLYING	COMPLYING
HEAVY METALS	≤ 0.001 % (AS PB)	< 0.001 %
MISCELLANEOUS TESTS	SENSITIVITY AS MICROANALYTICAL REAGENT: COMPLYING	COMPLYING
CHLORIDE (CL)	≤ 0.0005 %	< 0.0005 %
IRON	≤ 0.0001 %	< 0.0001 %



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.