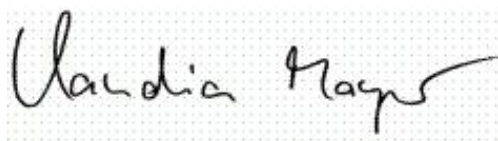


## Certificate of Analysis

**Product Name:** Oleic acid  
meets analytical specification of Ph, Eur., 65.0-88.0 % GC  
**Product Number:** 27728  
**Batch Number:** STBK0245  
**Brand:** Aldrich  
**CAS Number:** 112-80-1  
**Formula:**  $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$   
**Formula Weight:** 282.46  
**Quality Release Date:** 30 NOV 2020  
**Recommended Retest Date:** MAY 2024

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS TO DARK YELLOW TO DARK BROWN-YELLOW	FAINT YELLOW
APPEARANCE (FORM)	LIQUID OR VISCOUS LIQUID	LIQUID
APPEARANCE (TURBIDITY)	CLEAR	CLEAR
PURITY (GC AREA %)	65.0 - 88.0 %	81.2 %
REMARKS ON GC	≤ 4.0% MARGARIC ACID ≤ 5.0% MYRISTIC ACID ≤ 16.0% PALMITIC ACID ≤ 8.0% PALMITOLEIC ACID	< 4.0 % < 5.0 % <16.0 % < 8.0 %
REMARKS ON GC	≤ 6.0% STEARIC ACID ≤ 18.0% LINOLEIC ACID ≤ 4.0% LINOLENIC ACID ≤ 4.0% FATTY ACIDS W. 1 CHAIN >C18 FATTY ACID COMPOSITION: COMPLYING	< 6.0 % 18.0 % 4.0 % < 4.0 % COMPLYING
DENSITY	0.889 - 0.895	0.893
RESIDUE ON IGNITION	≤ 0.1 %	< 0.1 %
PEROXIDE VALUE	≤ 10.0	8.7
RESIDUAL SOLVENTS	COMPLYING	COMPLYING
PROOF OF IDENTITY	COMPLYING	COMPLIES
IODINE VALUE	89 - 105 G I/100G	95 G I/100G
ACID VALUE	195 - 204 MG KOH/G	199 KOH/G
REMARKS	IDENTITY, ASSAY AND IMPURITIES ARE COMPLYING TO THE MONOGRAPHS OF THE ABOVE MENTIONED PHARMACOPeias/CODICES.	



Claudia Mayer

Manager Quality Control  
Steinheim, Germany

# Certificate of Analysis

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.