

Certificate of Analysis

Product Name: Diethyl ether
contains BHT as inhibitor, puriss. p.a., ACS reagent, reag.
ISO, reagent Ph. Eur., ≥99.8% (GC)

Product Number: 32203

Batch Number: SDBB1688

CAS Number: 60-29-7

Formula: C₄H₁₀O

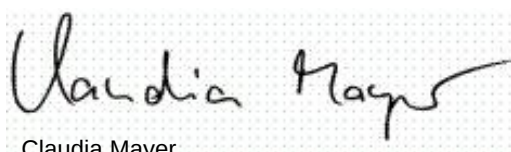
Formula Weight: 74.12

Quality Release Date: 28 FEB 2025

Recommended Retest Date: NOV 2028

TEST	SPECIFICATION	RESULT
STABILIZER	5 - 8 PPM BHT	5 PPM
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	LIQUID	LIQUID
COLOR (IN APHA)	≤ 10 APHA	5 APHA
TITRATABLE ACID	FREE ACID (AS CH ₃ COOH): ≤ 0.0002 %	0.0002 %
PURITY (GC AREA %)	≥ 99.8 %	> 99.9 %
REMARKS ON GC	≤ 0.005 % ACETONE ≤ 0.02 % ETHANOL ≤ 0.02 % METHANOL	< 0.005 % < 0.01 % < 0.01 %
DENSITY D20/4	0.713 - 0.714	0.714
BOILING POINT	34 - 35 DEG C	34-35 DEG C
WATER (COULOMETR.)	≤ 0.03 %	0.01 %
RESIDUE (EVAPORATION)	≤ 0.001 %	< 0.001 %
PEROXIDES	≤ 0.3 PPM AS H ₂ O ₂	< 0.1 PPM
ALDEHYDES	PASSES TEST	PASS
ALUMINIUM (ICP)	≤ 0.50 PPM	< 0.50 PPM
BARIUM (ICP)	≤ 0.10 PPM	< 0.10 PPM
BORON (ICP)	≤ 0.02 PPM	< 0.02 PPM
CALCIUM (ICP)	≤ 0.50 PPM	< 0.50 PPM
CADMIUM (ICP)	≤ 0.05 PPM	< 0.05 PPM
COBALT (ICP)	≤ 0.02 PPM	< 0.02 PPM
CHROMIUM (ICP)	≤ 0.02 PPM	< 0.02 PPM
COPPER (ICP)	≤ 0.02 PPM	< 0.02 PPM
IRON (ICP)	≤ 0.05 PPM	< 0.05 PPM

MAGNESIUM (ICP)	≤ 0.10 PPM	< 0.10 PPM
MANGANESE (ICP)	≤ 0.02 PPM	< 0.02 PPM
NICKEL (ICP)	≤ 0.02 PPM	< 0.02 PPM
LEAD (ICP)	≤ 0.05 PPM	< 0.05 PPM
TIN (ICP)	≤ 0.10 PPM	< 0.10 PPM
ZINC (ICP)	≤ 0.05 PPM	< 0.05 PPM
SUBSTANCES DARK BY H₂SO₄	PASSES TEST	PASS
CARBONYL COMPOUNDS	≤ 0.001 % (AS CO)	< 0.001 %



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.

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