

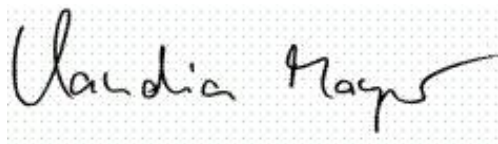
Certificate of Analysis

Product Name: DIISOPROPYL ETHER
puriss. p.a., >= 98.5 % GC
Product Number: 38270
Batch Number: STBH6822
Brand: Sigma-Aldrich
CAS Number: 108-20-3
Formula: $(\text{CH}_3)_2\text{CHOCH}(\text{CH}_3)_2$
Formula Weight: 102.17
Quality Release Date: 30 OCT 2018
Recommended Retest Date: JAN 2022

TEST	SPECIFICATION	RESULT
STABILIZER	STABILIZED WITH ~0.001 % 2,6-DI- -TERT-BUTYL-4-METHYLPHENOL	CORRESPONDS
APPEARANCE (COLOR)	COLORLESS	COLORLESS
APPEARANCE (FORM)	CLEAR LIQUID	CLEAR LIQUID
COLOR (IN APHA)	≤ 25 APHA	5 APHA
TITRATABLE ACID	≤ 0.005 % (AS C ₂ H ₅ COOH)	< 0.001 %
PURITY (GC AREA %)	≥ 98.5 %	99.7 %
REMARKS ON GC	ISOPROPANOL ≤ 0.5 %	ISOPROPANOL < 0.5 %
DENSITY D ₂₀ /4	0.723 - 0.725	0.724
REFRACTIVE INDEX N ₂₀ /D	1.367 - 1.369	1.368
WATER (COULOMETR.)	≤ 0.1 %	< 0.1%
RESIDUE (EVAPORATION)	≤ 0.002 %	< 0.002 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
TRACES PEROXIDE (AS H ₂ O ₂)	≤ 10 MG/KG	< 10 MG/KG
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
ALUMINIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
BARIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
BISMUTH (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
CALCIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
CADMIUM (ICP)	≤ 0.05 MG/KG	< 0.05 MG/KG
COBALT (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
CHROMIUM (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG

Certificate of Analysis

COPPER (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
IRON (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
POTASSIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
LITHIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
MAGNESIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
MANGANESE (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
MOLYBDENUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
SODIUM (ICP)	≤ 0.5 MG/KG	< 0.5 MG/KG
NICKEL (ICP)	≤ 0.02 MG/KG	< 0.02 MG/KG
LEAD (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
STRONTIUM (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG
ZINC (ICP)	≤ 0.1 MG/KG	< 0.1 MG/KG



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.