

Specification Sheet

SIGMA-ALDRICH®

Product Name	Sodium sulfate decahydrate, BioUltra, ≥99.0% (calc. on dry substance, T)
Product Number	71969
Product Brand	SIGMA
CAS Number	7727-73-3
Molecular Weight	322.20

TEST

APPEARANCE (COLOR)

Colorless or White

APPEARANCE (FORM)

Crystals

TITRATION (ION EXCHANGE)

99.0 - 101.0 % (calc. based on dry substance)

LOSS ON DRYING

53.0 - 57.0 %

METAL TRACE ANALYSIS (ICP)

CORRESPONDS TO REQUIREMENTS

ALUMINIUM (ICP)

≤ 5 mg/kg

BARIUM (ICP)

≤ 5 mg/kg

BISMUTH (ICP)

≤ 5 mg/kg

CALCIUM (ICP)

≤ 20 mg/kg

CADMIUM (ICP)

≤ 5 mg/kg

COBALT (ICP)

≤ 5 mg/kg

CHROMIUM (ICP)

≤ 5 mg/kg

COPPER (ICP)

≤ 5 mg/kg

IRON (ICP)

≤ 5 mg/kg

POTASSIUM (ICP)

≤ 20 mg/kg

LITHIUM (ICP)

≤ 5 mg/kg

MAGNESIUM (ICP)

≤ 5 mg/kg

MANGANESE (ICP)

≤ 5 mg/kg

MOLYBDENUM (ICP)

≤ 5 mg/kg

NICKEL (ICP)

≤ 5 mg/kg

LEAD (ICP)

≤ 5 mg/kg

STRONTIUM (ICP)

≤ 5 mg/kg

ZINC (ICP)

≤ 5 mg/kg

ARSENIC TRACES (MHS-AAS)

≤ 0.1 mg/kg

CHLORIDE (CL)

≤ 5 mg/kg

TOTAL NITROGEN

≤ 5 mg/kg

PHOSPHATE (PO4)

≤ 10 mg/kg

SOLUBILITY (METHOD)

1M IN WATER

APPEARANCE (SOLUTION)

CLEAR COLORLESS

PH (SOLUTION)

5.0 - 7.0

RESIDUE (FILTER TEST)

NO RESIDUE

UV - ABS. AT 260 NM

≤ 0.025

UV - ABS. AT 280 NM

≤ 0.021

RECOMMENDED RETEST PERIOD

72 MONTHS