

Product Name: Ethylenediaminetetraacetic acid disodium salt dihydrate, (EDTA), 99.0-101.0%, MB Grade, Ultrapure, Thermo Scientific

Catalog Number: J15701.36

CAS Number: 6381-92-6

IUPAC Name: disodium
m
2-({2-[(carboxylatomethyl)(carboxymethyl)amino]ethyl}(carboxymethyl)amino)acetate
dihydrate

Molecular Formula: C₁₀H₁₈N₂Na₂O₁₀

Molecular Weight: 372.24

InChI Key: OVBJJZOQPCKUOR-UHFFFAOYSA-L

SMILES: O.O.[Na+].[Na+].OC(=O)CN(CCN(CC(O)=O)CC([O-])=O)CC([O-])=O

Synonym: disodium
2-({2-[(carboxylatomethyl)(carboxymethyl)amino]ethyl}(carboxymethyl)amino)acetate
dihydrate

Product Specification

Form: White crystalline powder

Assay (unspecified): Absorbance (280 nm, 0.1M, 1 cm): ≤ 0.05

Impurity content: Nitrotriacetic Acid: ≤ 0.1%

Trace Metal: Iron (Fe): ≤ 0.01%

Solution Test: (0.1M, H₂O): Completely clear and colorless

Trace Metal: Calcium (Ca): Passes test

Assay (unspecified): Absorbance (260 nm, 0.1M, 1 cm): ≤ 0.2

DNase: (endo): Passes test

Insoluble material: ≤ 0.005%

pH: (5%, H₂O): 4.0 to 6.0

RNase: Passes test

Trace Metal: Arsenic (As): ≤ 1 ppm

Assay (unspecified): 99.0 to 101.0%
DNase: (exo): Passes test