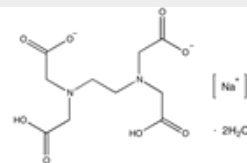


**Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur**
**Identification**

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
 M = 372,24 g/mol  
 CAS [6381-92-6]  
 EC number: 205-358-3  
 Taric code: 2922 49 95


**Synonyms**

Edetic acid disodium salt, Disodium dihydrogen ethylenediaminetetraacetate

**Applications**

analytical chemistry, sequestering agent.

**Specifications**

assay (complexometric).....	99,0 - 101,0 %	chlorides (Cl).....	max. 0,004 %
Identification IR.....	passes test	sulfates (SO <sub>4</sub> ).....	max. 0,01 %
identity (complexation).....	passes test	cyanides (CN).....	max. 0,001 %
identity (sodium).....	passes test	calcium (Ca).....	passes test
appearance.....	passes test	copper (Cu).....	max. 0,0001 %
appearance of solution (50 g/l).....	passes test	heavy metals (as Pb).....	max. 0,0005 %
pH (5 %, H <sub>2</sub> O, 25 °C).....	4,0 - 5,0	iron (Fe).....	max. 0,0005 %
insoluble matter.....	max. 0,003 %	lead (Pb).....	max. 0,001 %
nitritotriacetic acid [(HOCOCH <sub>4</sub> ) <sub>3</sub> N].....	max. 0,1 %	loss on drying (150°C, 6 h).....	8,7 - 11,4 %

**Physical data**

- Appearance: crystalline powder, white or almost white
- Bulk density: ~ 400 - 500 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 100 g/l
- Melting point: 252 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) 4 - 5

**Safety - GHS**

**Signal Word:** Warning

**Hazard Statements:**

- H332: Harmful if inhaled.  
 H373: May cause damage to organs through prolonged or repeated exposure.


**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
 P271: Use only outdoors or in a well-ventilated area.  
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312: Call a POISON CENTER or doctor / physician if you feel unwell.  
 P314: Get medical advice / attention if you feel unwell.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- 10°C - 30°C