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# Careers with Chemistry

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# CAREER

**NURSE  
PRACTITIONER**

**MEDIAN SALARY**  
\$ 98,190

**EDUCATION**  
Master's Degree Required

**AVAILABILITY OF JOBS**  
Employment is projected to grow 35% from 2014-2024, much faster than the average

**JOB DESCRIPTION**  
Coordinate patient care and provide primary and specialty healthcare.

**1<sup>ST</sup> SCHOOL**  
University of Illinois at Chicago, Master of Science in Nursing

**2<sup>ND</sup> SCHOOL**  
Millikin University, Master's entry into Nursing Practice

**OTHER BENEFITS**  
Helping People  
Extensive job opportunities

**PARKLAND COLLEGE**  
**CHE 100-201**  
**Ebru Taskan**

**EDTA MOST COMMONLY USED IN:**  
Blood test tubes to prevent clotting

**CAS No:** 6381-92-6

**NFPA Health Rating:**  
(blue):1, (red):1, (yellow):0,  
(white):E

**State:**Solid/Crystalline Powder  
**Color:** White  
**Solubility:** aq. solution-  
Soluble in water

**POTENTIAL HEALTH EFFECTS**  
Irritation on eyes and skin, may cause respiratory tract irritation, gastrointestinal irritation with nausea, vomiting and diarrhea

**PROTECTIVE WEAR**  
Safety goggles, gloves, protective clothing

**CITE SDS:**  
1. Ethylenediaminetetraacetic acid, disodium salt, dehydrate, MSDS No.08308 (Online). Fisher Scientific, Fair Lawn, NJ, February 23, 1999. Rev. date June 29, 2007  
<http://lifescience.byu.edu/Portals/6/docs/EDTA.pdf> (accessed Nov 6, 2016)  
2. Material Safety Data Sheet, Ethylenediaminetetraacetic acid Tetrasodium salt, MSDS Number 10378-23-1 (Online). Science Lab.com  
3. MSDS&Laboratory Equipment, May 21, 2013  
<http://www.msdslab.com/msds.php?msddid=9923980> (accessed Nov 10, 2016)

## CHEMICAL NAME

EDTA-Common Name  
Ethylenediaminetetraacetic acid, disodium salt, dihydrate

**CHEMICAL FORMULA**  
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$

**TYPE of COMPOUND**  
Both Covalent and Ionic

**MELTING POINT**  
252 Celsius, 486 Fahrenheit,  
525 Kelvin

**BOILING POINT**  
Decomposes

**BALANCED EQUATION**  
 $10CO_2 + 2NaOH + N_2 + 9H_2 \rightarrow$   
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$

**MOLAR MASS**  
372.28 g/mol

**PERCENT COMPOSITION**  
C-32.26 % H<sub>2</sub>-3.798 %  
N<sub>2</sub>-7.527 % O<sub>2</sub>-34.38 %  
Na-12.35 %

**Cite Occupational Handbook:**

3. Outlook Handbook, 2016-2017 Edition (Online). U.S. Bureau of Labor Statistics Office of Occupational Statistics and Employment Projections, Washington, D.C., <http://www.bls.gov/oooh/healthcare/nurse-anesthetists-nurse-midwives-and-nurse-practitioners.htm> (accessed October 29, 2016)