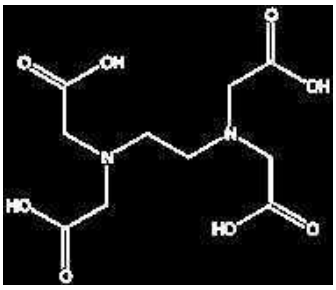
ETHYLENEDIAMINETETRAACETIC ACID, EDTA

AC0940 Ethylenediaminetetraacetic acid, EDTA, EssentQ®

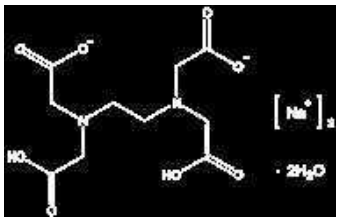


- Synonyms: Ethylenedinitrilotetraacetic acid, Edetic acid, EDTA
- $C_{10}H_{16}N_2O_8$
- M = 292,25 g/mol
- CAS [60-00-4]
- EINECS-No.: 200-449-4
- Solub. in water: (20 °C): ~ 0,5 g/l
- Melting point: 220 °C (decomposes)
- Flash pt. > 100 °C
- Ignition temp.: > 200 °C
- Vapour pressure: (20 °C) < 0,013 hPa
- LD 50 (oral, rat): 2580 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, antioxidant (in food industry), synthesis of organic products, for pharmaceutical use.

assay (complexometric) . . . . . min. 98 %
identity (IR-spectrum) . . . . . passes test
residue on ignition . . . . . max. 0,1 %
water (K.F.) . . . . . max. 0,5 %

ART. NO.	VOLUME	CONTAINER
AC09400100	100 g	P
AC09400500	500 g	P
AC09401000	1 kg	P
AC0940005P	5 kg	P

ETHYLENEDIAMINETETRAACETIC ACID, EDTA, DISODIUM SALT, DIHYDRATE



- Synonyms: Edetic acid disodium salt, Disodium dihydrogen ethylenediaminetetraacetate
- $C_{10}H_{14}N_2Na_2O_8{\cdot}2H_2O$
- M = 372,24 g/mol
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Solub. in water: (20 °C): 100 g/l
- Melting point: 252 °C (decomposes)
- LD 50 (oral, rat): 2000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P330 - P301 + P312 - P501a
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, sequestering agent.

AC0960 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, EssentQ®

assay (complexometric, referred to dried sample) . . . . . min. 98 %
pH (5 %, H_2O) . . . . . 4 - 5
chlorides (Cl) . . . . . max. 0,02 %
sulfates (SO_4) . . . . . max. 0,1 %
heavy metals (as Pb) . . . . . max. 0,005 %
iron (Fe) . . . . . max. 0,005 %
water (K.F.) . . . . . 9 - 10 %

ART. NO.	VOLUME	CONTAINER
AC09601000	1 kg	P
AC0960005P	5 kg	P

AC0963 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric, referred to dried sample) . . . . . 99,0 - 101,0 %
assay (complexometric) . . . . . 98,5 - 101,0 %
identification . . . . . passes test
appearance of solution . . . . . clear and colourless
pH (5 %, H_2O) . . . . . 4,0 - 5,5
calcium (Ca) . . . . . passes test
iron (Fe) . . . . . max. 80 ppm
nitrilotriacetic acid [$(HOCOCH_4)_3N$] . . . . . max. 0,1 %
loss on drying (150°C, 6 h) . . . . . 8,7 - 11,4 %
Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
AC09630250	250 g	P
AC09631000	1 kg	P
AC0963005P	5 kg	P
AC0963025P	25 kg	P

AC0965 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, ExpertQ®, for analysis, ACS

assay (complexometric) . . . . . 99 - 101 %
identity . . . . . passes test
insoluble in water . . . . . max. 0,003 %
appearance . . . . . white, cristalline powder
insoluble in diluted ammonium hydroxide . . . . . max. 0,005 %
pH (5 %, H_2O, 20°C) . . . . . 4,0 - 5,0
chlorides (Cl) . . . . . max. 0,004 %
cyanides (CN) . . . . . max. 0,001 %
sulfates (SO_4) . . . . . max. 0,01 %
calcium (Ca) . . . . . max. 0,001 %
copper (Cu) . . . . . max. 1 ppm
heavy metals (as Pb) . . . . . max. 5 ppm
iron (Fe) . . . . . max. 5 ppm
lead (Pb) . . . . . max. 0,001 %
magnesium (Mg) . . . . . max. 5 ppm
nitrilotriacetic acid [$(HOCOCH_4)_3N$] . . . . . max. 0,05 %
loss on drying (150°C, 6 h) . . . . . 8,7 - 11,4 %
residue on ignition . . . . . max. 0,2 %

ART. NO.	VOLUME	CONTAINER
AC09650100	100 g	P
AC09650250	250 g	P
AC09650500	500 g	P
AC09651000	1 kg	P
AC0965005P	5 kg	P
AC0965025P	25 kg	P

AC0967 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, molecular biology grade

assay (complexometric, referred to dried sample) . . . . . min. 99 %
absorbance of an aqueous solution 0,1 M in a 1 cm cell at 260 nm . . . . . max. 0,2 AU
absorbance of an aqueous solution 0,1 M in a 1 cm cell at 280 nm . . . . . max. 0,02 AU
heavy metals (as Pb) . . . . . max. 5 ppm
loss on drying (150 °C) . . . . . 9,0 - 10,0 %
DNases, RNases, Proteases . . . . . non detected

ART. NO.	VOLUME	CONTAINER
AC09670100	100 g	P
AC09671000	1 kg	P