


Specification

EDTA BioChemica

A1103

Solubility:	0.5 g/L (H ₂ O)
Physical Description:	Solid
Product Code:	A1103
Product Name:	EDTA BioChemica
Specifications:	<p>Assay (titr.): min. 99 %</p> <p>pH (1 %; H₂O; 25°C): approx. 2.5</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>Insol. matter (0.1 M; 1 M NaOH): passes test</p> <p>Water: max. 0.25 %</p> <p>Fe: max. 0.001 %</p> <p>A (1 cm/0.1 M in 1 M NaOH)</p> <p>260 nm: max. 1.5</p> <p>280 nm: max. 0.3</p>
Hazard pictograms	
WGK:	2
Storage:	RT
Signal Word:	Attention
GHS Symbols:	<p>GHS07</p> <p>GHS08</p>
H Phrases:	<p>H319</p> <p>H332</p> <p>H373</p>
P Phrases:	P260

AppliChem GmbH

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Specification

EDTA BioChemica

A1103

	P261 P271 P304+P340 P305+P351+P338 P312
Molecular Formula:	$C_{10}H_{16}N_2O_8$
M:	292.25 g/mol
CAS:	60-00-4
EINECS:	200-449-4
CS:	29224985
Index Nr.:	607-429-00-8
Comment	<p>EDTA is a chelator of calcium, magnesium and zinc ions and therefore may inhibit metallo proteases. It complexes the zinc ion of the active center of the metallo proteases, but in addition it also may influence other biological processes depending on metal ions. The effective concentration is approx. 1 mM. Stock solutions are prepared in water (0.5 M EDTA, pH 8.0 or 8.5). The free acid of EDTA will not dissolve unless the trisodium salt is formed. Therefore, to dissolve the free acid EDTA the molar ratio EDTA : NaOH has to become 3 : 1.</p>

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