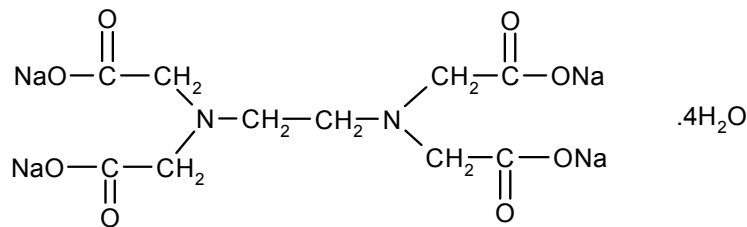


## Dissolvine<sup>®</sup> 220-S

**Chemical Name** Ethylenediaminetetraacetic acid tetrasodium salt, tetrahydrate

**Chemical formula** EDTA-Na<sub>4</sub>.4H<sub>2</sub>O

**Structure**



**Mol. Weight** 452.2

**CAS Number** 64-02-8

**Specifications**

<b>Characteristic</b>	<b>Specification</b>
Appearance	White crystalline powder
Assay as EDTA-Na <sub>4</sub> .4H <sub>2</sub> O	99% min
Chelating value (CaCV)	219 mg CaCO <sub>3</sub> /g min
NTA-Na <sub>3</sub>	0.1 % max
pH of a 1% w/w solution	10.5 - 11.5
Color of a 30% w/w solution	200 APHA max

**Main Characteristics**

Dissolvine<sup>®</sup> 220-S is a versatile non-hygroscopic sequestering agent, forming stable, water-soluble chelates with polyvalent metal ions in a wide pH range.

Solubility in water	: approx. 1100 g/l water (20°C)
	: approx. 1500 g/l water (80°C)
Bulk density untapped (poured)	: approx. 650-850 kg/m <sup>3</sup>
Bulk density tapped	: approx. 900-1100 kg/m <sup>3</sup>

Sequestering values for Dissolvine<sup>®</sup> 220-S are approximately (theoretical calculated figures):

<b>Metal ion</b>	<b>pH range</b>	<b>mg metal/g Dissolvine<sup>®</sup> 220-S</b>
calcium	5 - 14	90
copper	2 - 14	140
ferric	1 - 10	120
magnesium	6 - 11	55
manganese	3 - 13	120
zinc	2 - 13	





## Dissolvine<sup>®</sup> 220-S

### Applications

In numerous branches of the industry for control of hardness and heavy metal ions.

#### Application area

- \* cleaning
- \* detergents & soaps
- \* disinfectants
- \* personal care
- \* metal treatment
- \* oil industry
- \* polymer processing
- \* pulp & paper industry
- \* textile industry

#### Function

- hardness controller
- stabilizer
- potentiator
- stabilizer
- metal remover
- scale dissolver
- stabilizer
- bleach stabilizer
- bleach & dye stabilizer

### Environmental aspects

Inherently biodegradable.  
Rapid biodegradation can be obtained under slightly alkaline conditions.  
COD: approx. 530 mg/g

### Packing

For information on possible packing types and sizes, please contact your nearest AkzoNobel representative.

### Storage

Store in original packing at a dry place.  
Opened bags must be closed again properly.  
It is advised to re-test the material after three years of storage

### Further Information

For transport, handling and first aid instructions, please refer to the Safety Data Sheet, which is available on request.

For samples, technical service and further information, please contact your nearest AkzoNobel representative or:

### Internet

[www.dissolvine.com](http://www.dissolvine.com)

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