

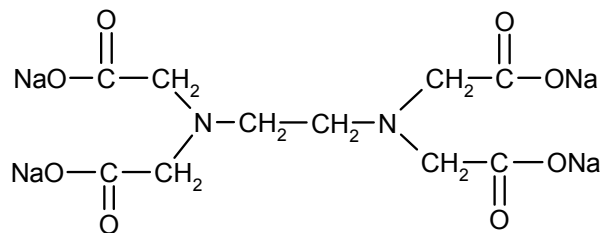


## Dissolvine<sup>®</sup> E-39

**Chemical Name** Ethylenediaminetetraacetic acid, tetrasodium salt

**Chemical formula** EDTA-Na<sub>4</sub>

**Structure**



**Mol. Weight** 380.2

**CAS Number** 64-02-8

**Specifications**

<b>Characteristic</b>	<b>Specification</b>
Appearance	clear liquid
Active ingredient	39.0 – 41.0 %
Chelating value (CaCV)	102.5 – 107.8 mg CaCO <sub>3</sub> /g
Color	150 APHA max
pH of a 1% w/v dilution	11.0 - 11.8
Free sodium hydroxide	1.9 % max
NTA-Na <sub>3</sub>	1.90 % max
Specific gravity at 25°C	1.26 - 1.33

**Main Characteristics**

Dissolvine<sup>®</sup> E-39 is a versatile sequestering agent, forming stable, water-soluble chelates with polyvalent metal ions in a wide pH range.

Miscibility with water : any desired ratio  
 Crystallization point : below - 18°C

Sequestering values for Dissolvine<sup>®</sup> E-39 are approximately (theoretical calculated figures):

<b>Metal ion</b>	<b>pH range</b>	<b>mg metal/g Dissolvine<sup>®</sup> E-39</b>
calcium	5 - 14	40
copper	2 - 14	65
ferric	1 - 10	55
magnesium	6 - 11	25
manganese	3 - 13	55
zinc	2 - 13	65





## **Dissolvine**<sup>®</sup> **E-39**

### **Applications**

In numerous branches of industries 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. 260 mg/g

### **Packing**

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

### **Storage**

Store in original packing or in PVC, PP, PE, stainless steel or bituminized tanks.  
Avoid contact with aluminum, zinc, nickel, copper and copper alloys.  
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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