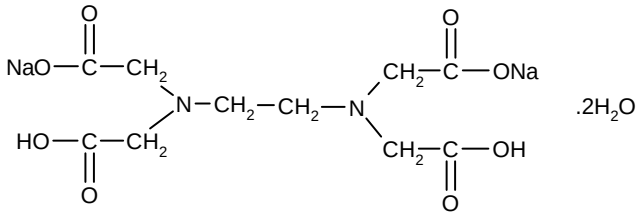
Dissolvine® NA2-P

Chemical Name Ethylenediaminetetraacetic acid, disodium salt

Chemical formula EDTA-$Na_2H_2.2H_2O$

Structure



Mol. Weight 372.2

CAS Number 6381-92-6; anhydrous: 139-33-3

Specifications Dissolvine® NA2-P meets the chemical test requirements of the European Pharmacopoeia (EP), United States Pharmacopoeia (USP), Japanese Pharmacopoeia (JP), Food Chemicals Codex (FCC) and American Chemical Society (ACS).

Checkpoint	Specification	Units	Method
Appearance	free flowing white powder		Visual
Identification (tests)	Passes test		EP
Assay as dihydrate	99.0 - 101.0	%	ACS
Assay on dried basis	99.0 - 101.0	%	USP
Loss on drying	8.7 - 11.4	%	USP
NTA-H_3	< 0.10	%	USP
pH of 1% solution	4.3 - 4.7		FCC
pH of 5% solution	4.0 - 5.5		EP
Appearance of 5% solution	Colorless, clear		EP
Calcium	Passes test		USP
Heavy metals as Pb	10 max	mg/kg	JP
Arsenic	2 max	mg/kg	JP
Lead	10 max	mg/kg	FCC
Iron	80 max	mg/kg	EP
Cyanide	Passes test		JP
Insolubles	0.005 max	%	ACS
Residue on ignition	37.0 – 39.0	%	JP

Main Characteristics Dissolvine® NA2-P is a sequestering agent of high purity forming stable, water-soluble chelates with polyvalent metal ions in a wide pH range.

Solubility in water (approx.)	100 g/l water (20°C)
	135 g/l water (40°C)
	230 g/l water (80°C)
Bulk density	approx. 600 kg/m^3

Dissolvine® NA2-P

Main Characteristics

Sequestering values for Dissolvine® NA2-P are approximately (theoretical calculated figures):

Metal ion	pH range	mg metal/g Dissolvine® NA2-P
calcium	5-15	105
copper	2-14	170
ferric	1- 6	150
magnesium	6-12	65
manganese	3-14	145

Applications

In the food industry to promote color and flavor retention.
In pharma and cosmetics as a stabilizer.

Environmental aspects

Biodegradability: difficult
C.O.D.: approx. 630 mg/g

Packing

25 kg net in polyethylene bags (pallets: 28 bags each), 25 kg net in fiber drums (pallets: 18 drums each) or in big bags (pallet: 2 bags each)

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 Akzo Nobel Chemicals Sales Office or agent, or:

Internet

www.dissolvine.com

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