

Product Data Leaflet

Application

In the food industry to promote colour and flavour retention

Specifications

Solvitar™ meets the chemical test requirements of the European Pharmacopoeia (EP), United States Pharmacopoeia (USP), Food Chemical Codex (FCC), European Directive 380/2012/EC and JECFA.

Checkpoint	Specification	Units	Methods
Appearance	Free-flowing white micro-granules		Visual
Identification	Passes test		USP
Assay on anhydrous basis	98.0 – 102.0	%	USP
Water content	5.0 – 13.0	%	USP
Free EDTA as EDTA-Na ₂	1.0 max	%	USP
Magnesium Chelating substance NTA-H ₃	Passes test <0.10	%	FCC USP
pH of 20% wv aqueous solution	6.5 – 8.0		USP
pH of 1% wv aqueous solution	6.5 – 7.5		FCC
Chloride	0.10 max	%	USP
Appearance of 5% solution	Colorless, clear		EP
Heavy metals as Pb	10 max	mg/kg	USP
Arsenic	3 max	mg/kg	SMA 885.06
Lead	2 max	mg/kg	FCC
Iron	80 max	mg/kg	EP
Mercury	1 max	mg/kg	SMA 968.07

Certificates

Solvitar™ is produced in Herkenbosch, the Netherlands. This production facility is certified according to ISO 9001, ISO 14001, HACCP (in accordance with the standard defined by the “Dutch National Board of Experts HACCP”) and FSSC22000 (Food Safety Certification scheme for food manufacturing in compliance with ISO 22000 and PAS220). Solvitar™ is Kosher/Parve and Halal certified.

Main characteristics

Solvitar™ is a sequestering agent of high purity forming stable, water-soluble chelates with polyvalent metal ions in a wide pH range.

Solvitar™ is practically insoluble in alcohol.

Calcium content	10 +/- 0.5%
Solubility in water	~ 800 g/l water (20°C) >1500 g/l water (80°C)

Bulk density untapped (poured)	~ 600- 800 kg/m ³
Bulk density tapped	~ 800-1000 kg/m ³

Sequestering values for Solvitar™ are approximately (theoretical calculated figures):

metal ion	pH range	mg metal/ g Solvitar™
Copper	2-14	155
Ferric	1-10	135
Manganese	3-13	135
Zinc	2-13	160

FPD3058-01, July- 2013/ Update: lay-out, specifications

The information presented herein is true and accurate to the best of our knowledge, but without any guarantee unless explicitly given. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

Solvitar™ and the AkzoNobel® device are trademarks of the AkzoNobel group of companies. © AkzoNobel Functional Chemicals bv

Environmental aspects

Inherently biodegradable.

Rapid biodegradation can be obtained under slightly alkaline conditions.

COD: approx. 570 mg/g

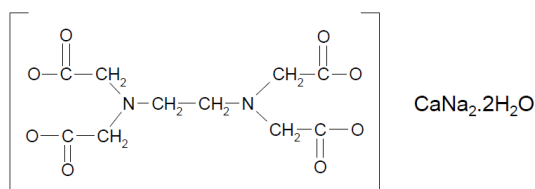
Chemical name

Ethylenediaminetetraacetic acid, calcium-disodium complex

Chemical formula

EDTA-CaNa₂.2H₂O

Structure



Mol weight

410.3 (dihydrate)

374.3 (anhydrous)

CAS number

23411-34-9 (dihydrate)

62-33-9 (in some National Inventories registered as anhydrous)

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.

Addresses

Europe, Middle East and Africa

Akzo Nobel Functional Chemicals
 bv
 Stationsstraat 77
 P.O. Box 247
 3800 AE Amersfoort
 The Netherlands
 T: +31 33 467 6341
 E: eur@dissolvine.com

North, Central and South America

Akzo Nobel Functional Chemicals
 LLC
 525 W. van Buren Street
 Chigaco, Illinois 606
 U.S.A.
 T: Inside U.S.A. +1 800 906 7979
 Outside U.S.A. +1 312 544 7000
 E: nam@dissolvine.com

Asia Pacific

Akzo Nobel Chemicals (Ningbo) Co.
 Ltd. Shanghai Branch
 22F, Eco city
 No. 1788 West Nan Jing Road
 Shanghai 200040
 P.R. China
 T: +86 21 2220 5000
 E: ap@dissolvine.com