



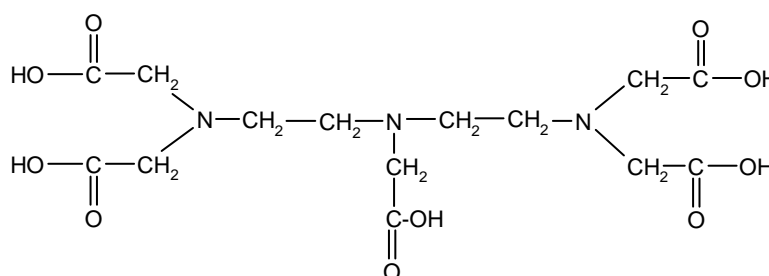
## Dissolvine<sup>®</sup> DZ-P

**Pentetic Acid - meets the chemical specification requirements of the USP**

Chemical Name Diethylenetriaminepentaacetic acid

Chemical formula DTPA-H<sub>5</sub>

Structure



Mol. Weight 393.4

CAS Number 67-43-6

Specifications	Checkpoint	Specification	Units	Method
	Identification (IR test)	Passes test		USP
	Assay as DTPA-H <sub>5</sub>	98.0 - 100.5	%	USP
	Residue on ignition	0.2 max	%	USP
	Heavy metals as Pb	0.005 max	%	USP
	Iron	0.01 max	%	USP
	Nitrilotriacetic acid	< 0.1	%	USP

Main Characteristics Dissolvine<sup>®</sup> DZ-P is a high purity sequestering agent, forming very stable water soluble complexes with polyvalent metal ions in a wide pH range.

Solubility in water : approx. 5 g/l water (20°C)  
: approx. 13 g/l water (50°C)  
: approx. 48 g/l water (80°C)

Addition of alkali hydroxide changes solubility considerably

Bulk density untapped (poured) : approx. 500-700 kg/m<sup>3</sup>  
Bulk density tapped : approx. 850-1050 kg/m<sup>3</sup>

Sequestering values for Dissolvine<sup>®</sup> DZ-P are approximately (theoretical calculated figures – mg metal ion / g DZ-P):

Metal ion	pH range	Dissolvine <sup>®</sup> DZ
calcium	6 - 14	100
copper	2 - 14	160
ferric	1 - 11	140
magnesium	6 - 12	60
manganese	4 - 13	140
zinc	2 - 13	165



## Product Data Leaflet

Applications	In the pharmaceutical industry as chelating agent.	
Environmental aspects	Slowly biodegradable COD: approx. 900 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 MSDS, which is available on request. For samples, technical service and further information, please contact your nearest AkzoNobel representative or:	
Internet	<a href="http://www.dissolvine.com">www.dissolvine.com</a>	
Addresses	<p>Europe, Middle East and Africa Akzo Nobel Functional Chemicals bv Stationsstraat 77 P.O. Box 247 3800 AE Amersfoort The Netherlands Tel: + 31 33 467 6341 E-mail: <a href="mailto:EUR@dissolvine.com">EUR@dissolvine.com</a></p> <p>Asia Pacific – China Akzo Nobel Chemicals (Ningbo) Co., Ltd. 5F, The Exchange No. 299 Tong Ren Road Jin An District, Shanghai 200040 P.R. China Tel: +86 21 2216 3600 E-mail: <a href="mailto:AP@dissolvine.com">AP@dissolvine.com</a></p>	<p>North, Central and South America Akzo Nobel Functional Chemicals LLC 525 W. van Buren Street Chicago, Illinois 60607 United States of America Inside USA Tel: +1 800 906 7979 Outside USA Tel: +1 312 544 7000 E-mail: <a href="mailto:NAM@dissolvine.com">NAM@dissolvine.com</a></p> <p>Asia Pacific – excl. China Akzo Nobel Functional Chemicals Pte Ltd. 41 Science Park Road #03-04 The Gemini Singapore Science Park II Singapore 117610 Tel: +65 6773 8488 E-mail: <a href="mailto:AP@dissolvine.com">AP@dissolvine.com</a></p>