

Belclene® 627 - Belclene 630 - Belclene 633 – Belclene 635

General Product Information

BWA Water Additives is pleased to introduce a range of DETA and hexa phosphonates, useful in a wide range of industrial applications for scale inhibition, dispersion and metal ion control (chelation and sequestration).

Belclene 627

Belclene 627 is a 33% solution of hexamethylenediamine tetra (methylene phosphonic acid) potassium salt - HDTMP

Product description - Belclene 627

Chemical abstracts name	Phosphonic acid, [1,6 – hexanediyl bis [nitrilobis (methylene)]] tetrakis potassium salt
Abbreviation	K ₆ HDTMP
Molecular formula	C ₁₀ H ₂₂ N ₂ O ₁₂ P ₄ K ₆
Molecular weight	721
CAS/EINECS Number	38820-59-6/254-135-7

Typical physical properties – Belclene 627

Appearance	Clear colourless to yellow liquid
Active salt	33%
Chloride (Cl)	< 5%
pH of 1% solution	6 - 8
Density (at 21°C)	1.28 g/ml
Iron as (Fe)	35 ppm max.

Pack size

250 kg and 550 lb drums and 1250 kg IBC

Belclene 630

Belclene 630 is a 50% aqueous solution of diethylene triamine penta (methylene phosphonic acid) - DTPMPA.

Product description – Belclene 630

Chemical abstracts name	Phosphonic acid, [(phosphonomethyl) imino] bis [2,1-ethanediyl nitrilobis (methylene)] tetrakis
Abbreviation	DTPMPA
Molecular formula	C ₉ H ₂₈ N ₃ O ₁₅ P ₅
Molecular weight	573
CAS/EINECS Number	15827-60-8/239-931-4

Typical physical properties – Belclene 630

Appearance	Clear amber liquid
Actives	50%
Chloride (Cl)	<17%
pH of 1% solution	< 2
Density (at 20°C)	1.4 g/ml
Iron as (Fe)	35 ppm max.

Pack size

270 kg and 600 lb drums and 1250 kg IBC

Belclene 633

Belclene 633 is a 25% aqueous solution of diethylene triamine penta (methylene phosphonic acid) penta sodium salt - DTPMPA.

Product description – Belclene 633

Chemical abstracts name	Phosphonic acid, [(phosphonomethyl) imino] bis [2,1-ethanediyl nitrilobis (methylene)] tetrakis penta sodium salt
Abbreviation	DTPMPA
Molecular formula	C ₉ H ₂₃ N ₃ O ₁₅ P ₅ Na ₅
Molecular weight	683
CAS/EINECS Number	22042-96-2/244-751-4

Typical physical properties – Belclene 633

Appearance	Clear amber liquid
Active salt	30%
Active acid	25%
Chloride (Cl)	< 5%
pH of 1% solution	6 – 8
Density (at 20°C)	1.3 g/ml
Iron as (Fe)	35 ppm max.

Pack size

260 kg and 573 lb drums and 1250 kg IB

Belclene 635

Belclene 635 is a 47% aqueous solution of diethylene triamine penta (methylene phosphonic acid) tri sodium salt (approx.) - DTPMPA.

Product description – Belclene 635

Chemical abstracts name	Phosphonic acid, [(phosphonomethyl) imino] bis [2, 1-ethanediyl nitrilobis (methylene)] tetrakis sodium salt
Abbreviation	DTPMPA
Molecular formula	$C_9H_{25}N_3O_{15}P_5Na_3$
Molecular weight	640
CAS/EINECS Number	22042-96-2/244-751-4

Typical physical properties – Belclene 635

Appearance	Clear amber liquid
Active acid	45 - 49%
Chloride (Cl ⁻)	< 5%
pH of 1% solution	2 - 3
Density (at 20°C)	1.4 g/ml
Iron as (Fe)	35 ppm max.

Pack size

270 kg and 600 lb drums and 1250 kg IBC

Further details on safety and handling are available in the material safety data sheet on these products.

Patents

BWA Water Additives (BWA) owns or is the licensee of patents and patent applications, which may cover the products and/or uses described in this brochure.

The following are registered trademarks of BWA
Belclene, Drop and Swirl logo.

® Registered US Patent and Trademark Office.

© 2006 BWA, All rights reserved.

V0506

BWA Water Additives
Europe and Middle East Region
2 Brightgate Way, Cobra Court
Stretford, Manchester M32 0TB
United Kingdom
Telephone + 44 161 864 6699
Fax + 44 161 864 6666

BWA Water Additives
Americas Region
1979 Lakeside Parkway, Suite 925
Tucker, GA 30084
USA
Telephone + 1 678 802 3050
Or 800 600 4523
Fax + 1 678 802 3024

BWA Water Additives
Asia Pacific Region
Telok Blangah East Post Office
PO Box 129
Singapore 910901
Telephone + 65 9758 0554
Fax + 65 6234 3606

Visit our website at: www.wateradditives.com

The information contained in this product sheet is based on data available to BWA Water Additives and is thought to be correct. Since BWA, has no control over the use of this information by others, BWA does not guarantee the same results described herein will be obtained, and makes no warranty of merchantability or fitness for a particular purpose or any express or implied warranty. This information is intended for use by technically trained personnel at their discretion and risk. BWA Water Additives UK Limited is a private limited company registered in England and Wales at 2 Brightgate Way, Manchester M32 0TB, Registered No. 5657343

