Product Data Sheet

Magnesium chloride hexahydrate PhEur/BP, USP, JPC, ChP, ACS

Production site	**Macco Organiques, s.r.o., Bruntál, Czech Republic**
Chemical name	Magnesium chloride hexahydrate
CAS number	7791-18-6
EC number (EINECS)	232-094-6
Chemical formula	$MgCl_2.6H_2O$
Molecular weight	203.303
Contents of Magnesium	11.8 g in 100 g of $MgCl_2.6H_2O$
Shelf life	3 years
Storage Conditions	Store in cool, dry and well ventilated areas, store in tightly closed packages at temperature: -5 – 45°C, and relative humidity: 5 – 98 %
REACH registered no.	01-2119485597-19-0001

Physical properties

Appearance	Inorganic colourless crystalline
Density	1.57 kg/dm^3
Solubility in water at 20°C	3043.05 g/1000 g
Melting point	117°C
Temperature of dehydratation	500°C
Taste	bitter salt

Applications


Dialysis Solution


Infusion Solutions


Nutritional Supplements


Pharmaceuticals


Bottled/Drinking Water


Baby Food & Infant Formulas


Analytical Chemistry & Special Tech. Applications

This product is authorized as active pharmaceutical ingredient (API) and can be used for production of dialysis solutions.

Barentz.

Provided by Barentz USA
1390 Jaycox Road, Avon, Ohio 44011
(440) 937-1000
www.barentz-na.com/us
Contact us at:
info-pharmaus@barentz.com

Valid from: 20.1.2022

Product Data Sheet

Magnesium chloride hexahydrate PhEur/BP, USP, JPC, ChP, ACS

Certificates
GMP according to ICH Q7A
HACCP
ISO 9001:2016
CEP
Kosher including Passover days
HALAL

Magnesium chloride hexahydrate is in conformity with the last edition of:

- European Pharmacopoeia/British Pharmacopoeia
- American Pharmacopoeia
- Japanese Pharmaceutical Codex
- Chinese pharmacopoeia
- American chemical society specifications

Statement
No material of animal or human origin is used in the raw materials, in the production and distribution process.
Product is BSE/TSE, GMO, allergen free, suitable for vegan/vegetarian diet

Packaging
Paper bags with LDPE inner liner - 25 kg,
Carton boxes with LDPE inner liner - 25 kg
Big bags with LDPE inner liner - 420 kg, 900 kg
On request
Single LDPE bags – 25 kg
Double LDPE bags – 25 kg
Plastic drums with LDPE inner liner
Fibre drums with LDPE inner liner
Low volume bags – from 0.5 to 8.0 kg

For some technical applications is contents of bromides <0.002 % on request

Granulometry – not binding parameters

mm	Typical values
>0.800	1-9 %
0.800 - 0.355	70-80 %
<0.355	11-29 %

Barentz.
Provided by Barentz USA
1390 Jaycox Road, Avon, Ohio 44011
(440) 937-1000
www.barentz-na.com/us
Contact us at:
info-pharmaus@barentz.com

Valid from: 20.1.2022

Product Data Sheet

Magnesium chloride hexahydrate PhEur/BP, USP, JPC, ChP, ACS

Chemical analysis

Parameter	Specification – PhEur/BP	Specification – USP	Specification – JPC	Specification - ChP	Specification - ACS
Identity A)	Water	Magnesium	Magnesium salt	Magnesium	
B)	Chlorides	Chloride	-	Chlorides	
C)	Magnesium	-	-	-	-
Appearance	Colourless crystals, hygroscopic	-	Colorless and odorless crystals or mass	Colourless transparent crystal or crystalline powder; odorless; taste bitter; freely deliquescent	Colorless, deliquescent solid
Solubility	Very soluble in water, freely soluble in ethanol (96 percent)	-	Very soluble in water, freely soluble in ethanol	Freely soluble in water and in ethanol	-
Assay	98.0 – 101.0 %	98.0 – 101.0 %	NLT 98.0 %	98.0 – 101.0 %	99.0 – 102.0 %
Appearance of Solution	Clear and colourless	-	Clear and colorless	Clear and colourless	-
Acidity or alkalinity	NMT 0.3 mL of 0.01 M HCl/NaOH	-	-	4.5 – 7.0	-
Bromides	Maximum 500 ppm	-	-	NMT 0.05 %	-
Sulfates	Maximum 100 ppm	NMT 0.005 %	NMT 0.005 %	NMT 0.01 %	0.002 %
Aluminium	Maximum 1 ppm	NMT 1 ppm	-	NMT 0.0001 %	-
Arsenic	-	-	NMT 3 ppm	NMT 0.0002 %	-
Calcium	Maximum 0.1 %	NMT 0.01 %	Corresponds to test	NMT 0.1 %	0.01 %
Heavy metals	-	-	NMT 10 ppm	NMT 0.001 %	5 ppm
Iron	Maximum 10 ppm	-	Corresponds to test	NMT 0.001 %	5 ppm
Potassium	Maximum 500 ppm	Corresponds to test		Corresponds to test	0.005 %
Water content	51.0 – 55.0 %	-		51.0 – 55.0 %	-
pH	-	4.5 – 7.0	5.0 – 7.0	-	-
Insoluble matter	-	NMT 0.005 %		-	0.005 %
Barium	-	Corresponds to test	Corresponds to test	Corresponds to test	0.005 %
Residual solvents	-	Corresponds to test*		-	-
Nitrate	-	-	-	-	0.001 %
Phosphate	-	-	-	-	5 ppm
Ammonium	-	-	-	-	0.002 %
Manganese	-	-	-	-	5 ppm
Sodium	-	-	-	-	0.005 %
Strontium	-	-	-	-	0.005 %

Remark: *None organic solvents are used in production, material fulfill the requirements of USP, PhEur and EMA/CHMP/ICH/82260/2006 for residual solvents.

Barentz.
Provided by Barentz USA
1390 Jaycox Road, Avon, Ohio 44011
(440) 937-1000
www.barentz-na.com/us
Contact us at:
info-pharmaus@barentz.com

Valid from: 20.1.2022