

# magnesium sulphate

M1405NN	Gold Line
dry	
<b>Typical analysis</b>	
Assay (MgSO <sub>4</sub> )	62 - 70%
Arsenic (As)	0.0003%
Chloride (Cl)	0.05%
Iron (Fe)	0.003%
Lead (Pb)	0.0015%

## Packaging

500g white plastic jar  
cas 7487-88-9

M1410NN	Gold Line
heptahydrate	
<b>Typical analysis</b>	
Assay	99%
Arsenic (As)	0.0005%
Calcium (Ca)	0.05%
Chloride (Cl)	0.001%
Iron (Fe)	0.001%
Lead (Pb)	0.001%

## Packaging

500g white plastic jar  
cas 10334-99-8

M1411NN	Platinum Line
heptahydrate	
<b>Warranty certificate</b>	
Assay	99 - 100.5%
Arsenic (As)	0.0002%
Calcium (Ca)	5%
Chloride (Cl)	0.0005%
Iron (Fe)	0.0005%
Lead (Pb)	0.0005%
Loss on drying	48 - 52%
Potassium (K)	0.005%
Sodium (Na)	0.005%
Water-insoluble matter	0.005%

## Packaging

500g white plastic jar  
cas 10334-99-8

## Physical properties, composition and data

Chemical formula	Dry: MgSO <sub>4</sub> and Heptahydrate: MgSO <sub>4</sub> ·7H <sub>2</sub> O or MgO <sub>4</sub> S <sub>7</sub> H <sub>2</sub> O
Synonym	Bitter salts; Epsom salts; Sulphuric acid magnesium salt heptahydrate
Chemical group	Sulphates
Occurrence in nature	In the Earth's crust in the mineral epsomite
Atomic weight	Dry: 120.37 and heptahydrate: 246.47
Appearance	Colourless, crystals or powder
Solubility	Soluble in water and glycerol
Melting point	Anhydrous decomposes at 1124°C and Heptahydrate at 250°C
Density (g/ml)	Anhydrous 2.66 and Heptahydrate 1.678
pH (aqueous solution)	Anhydrous 7.9 and heptahydrate 5.5 - 6.5

## Laboratory preparation, applications and practices

Laboratory preparation	Action of sulphuric acid on magnesium oxide, hydroxide or carbonate
Usage	Analytical reagent

## Storage and handling information

Storage	Keep container tightly closed
Disposal methods	3

## Transport regulations

Tariff code	2833.21.00
ECB number	231-298-2

