

## Magnesium chloride

Cat. No. COEC-095

Lot. No. (See product label)

### Introduction

**Description** Magnesium Chloride is widely used as a source of magnesium ion. In biological systems, magnesium is a co-foactor for many enzymes including deoxyribonuclease (DNase) and various restriction enzymes. Also plays a role in cell membrane integrity, muscle cell physiology, and nucleic acid structure. Magnesium chloride solution is a favorable choice as an elution buffer for antibody affinity column purifications; it is much milder on most antigens than acid elution, allowing reuse of the antigen column. Also an essential cofactor for the DNA polymerase in polymerase chain reaction (PCR) amplification.

**Applications** An excellent magnesium ion source for synthesis and biology research

**Synonyms** Magnogene

### Product Information

**Appearance** Powder

**Form** Solid

**CAS No.** 7786-30-3

**Molecular  
Formula** MgCl<sub>2</sub>

**Molecular  
Weight** 95.21

**Melting  
Point** 714° C (lit.)

**Boiling  
Point** 1412° C (lit.) at 1 atm

**Solubility** Soluble in water (542 mg/ml at 20° C), alcohol, methanol (15.5 g/100g at 0° C), and ethanol (3.61 g/100g at 0° C).