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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 1903.29-2018

**National food safety standard -- Food nutrition enhancer
magnesium gluconate**

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1 Scope

This standard applies to gluconic acid and magnesium oxide (or magnesium carbonate), or glucono-delta-lactone and magnesium oxide (or magnesium carbonate) as the original A food nutrition enhancer magnesium gluconate obtained by chemical synthesis and purification.

2.1 Chemical Name

D-magnesium gluconate

2.2 Molecular formula

$C_{12}H_{22}MgO_{14} \cdot nH_2O$ (n=0 or 2)

2.3 Structural formula

OH ?? ?? ?? ?? HOH2C C OH ?? ?? ?? ?? ?? ?? OH ?? ?? OH ?? ?? ?? ?? COO?? ÊÊ
Úú Mg2?? .nH2O

2.4 Relative molecular mass

414.60 (anhydrous) (according to.2016 international relative atomic mass)

450.63 (dihydrate) (according to.2016 international relative atomic mass)

3.1 Sensory requirements

Sensory requirements should be in accordance with Table 1.

Table 1 Sensory requirements

Project requirements inspection method White to white State powder or granule Odorless
Take an appropriate amount of sample in a clean, dry white porcelain dish, observe its
color, state, and smell under natural light.

Its smell

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