



Specialized in chemicals

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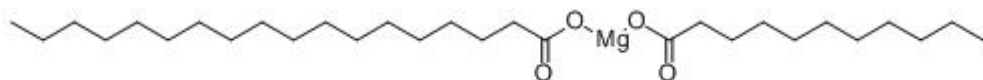
Site: www.tnjchem.com

Technical Data Sheet

Magnesium Stearate

Product Information

| | |
|--------------------|---|
| Chemical Name | Magnesium Stearate |
| CAS # | 557-04-0 |
| Formula | C36H70MgO4 |
| Molecular Weight | 591.2544 |
| Synonyms | Magnesium Stearate; Octadecanoic acid, magnesium salt |
| Chemical Structure | |



Description

White powder, insoluble in water, ethyl alcohol and diethyl ether; soluble in hot water, hot ethyl alcohol

Physical Properties

| | |
|-----------------------------------|-------|
| Melting point, °C . | 200 |
| Density @ 20°C, g/cm ³ | 1.028 |

Specification

Industry grade

| | |
|---------------------------------------|------------------------|
| appearance | white fine powder |
| identification | meet the specification |
| magnesium content, % | 4.0-5.0 |
| PH value | meet the specification |
| chloride, % | ≤0.1 |
| sulfate, % | ≤1.0 |
| loss on drying, % | ≤6.0 |
| lead, ppm | ≤10 |
| nickel, ppm | ≤5 |
| cadmium, ppm | ≤3 |
| stearic acid content, % | ≥40.0 |
| stearic acid&palmitic acid content, % | ≥90.0 |

Medical grade

| Specification | USP35 | BP2013 |
|---------------------------------------|------------------------|------------------------|
| appearance | white fine powder | white fine powder |
| identification | meet the specification | meet the specification |
| solubility | / | meet the specification |
| magnesium content, % | 4.0-5.0 | 4.0-5.0 |
| PH value | meet the specification | meet the specification |
| chloride, % | ≤0.1 | ≤0.1 |
| sulfate, % | ≤1.0 | ≤1.0 |
| loss on drying, % | ≤6.0 | ≤6.0 |
| lead, ppm | ≤10 | ≤10 |
| nickel, ppm | ≤5 | ≤5 |
| cadmium, ppm | ≤3 | ≤3 |
| stearic acid content, % | ≥40.0 | ≥40.0 |
| stearic acid&palmitic acid content, % | ≥90.0 | ≥90.0 |
| bacteria, cfu/g | ≤1000 | ≤1000 |
| mould, cfu/g | ≤100 | ≤100 |
| pathogenic bacterium | not detectable | not detectable |

Safety

Always refer to the Material Safety Data Sheet (MSDS)

Applications

Medical areas: it can be bind tablets and make tablets smooth.

Food areas: it uses as an anti-caking agent

Cosmetic areas: it used in make-up products for beauty,such as compact powder,eye shadow etc

Industry areas: It is widely used in coating, plastic, rubber, textile and other industries as emulsifier, release agent, lubricant, stabilizer, etc.

Packaging

20kg per bag or as request,10mt per 20ft container

Storage & Handling

Keep in cool, dry and well-ventilated warehouse. To protect direct sunlight and rain.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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