

# Chem-Impex International, Inc.

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Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	00828
<b>Lot Number</b>	000996-0150
<b>Product</b>	<b>Magnesium stearate</b> <b>≥ 90% Stearic and Palmitic acid basis,</b> <b>≥ 40% Stearic acid basis, 4.0-5.0% Mg basis</b>
	Octadeconic acid magnesium salt
<b>CAS Number</b>	557-04-0
<b>Molecular Formula</b>	C <sub>36</sub> H <sub>70</sub> O <sub>4</sub> Mg
<b>Molecular Weight</b>	591.2
<b>Appearance</b>	White powder
<b>Surface Area</b>	< 7.0 m <sup>2</sup> /g
<b>Heavy Metals</b>	< 5 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ) : < 0.1% Sulfate (SO <sub>4</sub> <sup>2-</sup> ) : < 0.5%
<b>Cation</b>	Lead (Pb) : < 0.4 ppm Arsenic (As) : < 0.4 ppm Nickel (Ni) : < 0.4 ppm Cadmium (Cd) : < 0.1 ppm Magnesium (Mg) : 4.6%
<b>Acidity &amp; Alkalinity</b>	0.05 mL in 0.1 M solution
<b>Mould and Yeast</b>	< 10 cfu/g
<b>Fatty acids &amp; Esters</b>	Stearic acid (C18) : 42.5% Stearic + Palmitic acid (C18 + C16) : 99.1%
<b>Loss on Drying</b>	2.3 (at 105 °C)
<b>Residual Solvents</b>	No solvent used
<b>E. Coli</b>	Absent / 10g
<b>Microbial Count</b>	< 10 cfu/g (TAMC)
<b>Salmonella</b>	Absent / 10g
<b>Mesh Size</b>	Sieve residue at 200 mesh (70µ) : 0.3%
<b>Grade</b>	USP/NF/EP/BP/JP

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**Storage**

Store at RT

**Additional Information**

Identification test:

Freezing point of fatty acids : 55.9 °C

Acid value of Fatty acids : 208 mg KOH/g

GC retention time: Conforms

Test fo Magnesium: Conforms

Oxide = 7.65%

**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**