Production and Producer of Sodium Gluconate and Glucono-delta-lactone in China

The Second Edition

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1 Introduction

This report is a value chain analysis of the sodium gluconate and glucono-delta-lactone industry in China, which covers the production, major producers, price, and production technology of sodium gluconate and glucono-delta-lactone, and presents the overall development of the industry during 2016–2020.

What had happened to the industries during 2016–2020? How about the performance of the producers? What are the new production technologies? Answers to these questions can be found in this intelligent report.

The key points of this report are listed as below:
- Production of sodium gluconate and glucono-delta-lactone (capacity, output) by volume in China in 2016–2020
- Production technology and key manufacturers information of sodium gluconate and glucono-delta-lactone
- Price development in 2016–2020

2 Executive summary

Sodium gluconate (SG), the sodium salt of gluconic acid, is used in concrete additive, water quality steadying agent, food and electroplating detergent industries in China. Glucono-delta-lactone (GDL) is a harmless food additive to human body. During the past two years, these two industries have seen increasing output and consumption in China.

- Sodium gluconate

As of Dec. 2020, there were XX manufacturers with SG capacity greater than 40,000 t/a. The output of the top four SG producers in 2020 accounted for XX% of total national SG output. In 2020, SG output in China increased to XX tonnes, up XX% year on year, encouraged by growing demand at home and abroad.

The annual average ex-works price of SG in 2020 dropped to USDXX/t, down XX% year on year, mainly influenced by the sufficient supply and outbreak of COVID-19.

As to SG production technology, enzyme method has become the mainstream technology thanks to no fungal residue and less energy consumption.

- Glucono-delta-lactone

As of Dec. 2020, there were XX active GDL producers in China. Capacity of the top two producers accounted for XX% of the national total. The output of GDL increased during 2016–2020 due to the growing demand from home and abroad, with GDL operating rate of XX%–XX% in 2016–2017 and about XX% in 2018–2020.

As people's health consciousness constantly enhanced, the demand for GDL grew at XX%–XX% annually in recent years. The growth of demand XX that of supply, so the price was XX in 2018–2020. Besides, Anhui Xingzhou Medicine & Food Co., Ltd. had strong pricing power after taking charge of large part of domestic GDL sales.

There are four methods for GDL production, namely fermentation method, catalytic oxidation method, glucose oxidase method and electrolytic oxidation method, with glucose or starch as starting material.

3 What is in the report?

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Figure 1.1-1 Capacity and output of sodium gluconate in China, 2016–2020
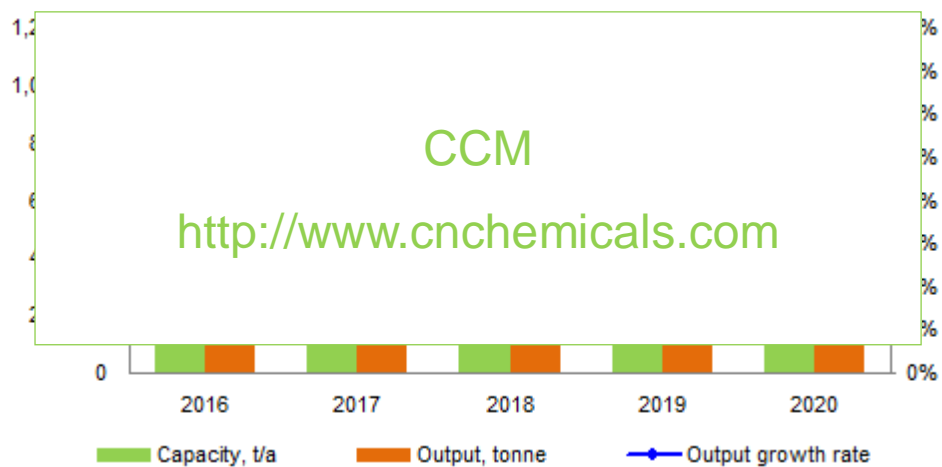
Source: CCM

Table 1.2-2 Capacity and output of major sodium gluconate producers in China, 2017–2020

No.	Producer	Capacity, t/a				Output, tonne							
						2020		2019		2018		2017	
		2020	2019	2018	2017	Solid	Liquid	Solid	Liquid	Solid	Liquid	Solid	Liquid
1	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
…	…	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
	Total	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: CCM

Figure 1.2-2 Output distribution of sodium gluconate in China, 2020

CCM

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Source: CCM

Figure 2.1-1 Capacity and output of GDL in China, 2016–2020

CCM

http://www.cnchemicals.com
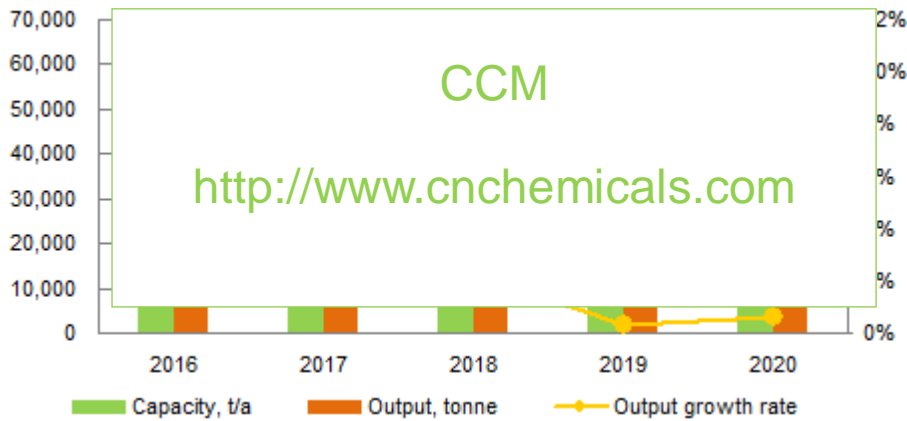
Source: CCM

Table 2.1-2 Capacity and output of GDL producers in China, 2017–2020

No.	Producer	Capacity, t/a				Output, tonne			
		2020	2019	2018	2017	2020	2019	2018	2017
1	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
…	…	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Total		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: CCM

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