

# China Pentaerythritol Market Research

The Sixteenth Edition

August 2020

**Researched & Prepared by:**

**Kcomber Inc.**

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## 1. Introduction

The report provides you with detailed information of the pentaerythritol industry in China from the raw materials, import and export, consumption in major end-use segments and profiles of nine major pentaerythritol manufacturers in China.

The key points of this report are listed as below:

- ✓ Pentaerythritol development in China
- ✓ Production of pentaerythritol in China
- ✓ Import and export analysis
- ✓ Consumption of pentaerythritol in China
- ✓ Future forecast
- ✓ Profiles of pentaerythritol manufacturer

## 2. Approach for this report

The report is drafted by diverse methods as follows:

### 1) Desk research

The sources of desk research are various, including published magazines, journals, government statistics, industrial statistics, Customs statistics, association seminars as well as information from the Internet. A lot of work has gone into compilation and analysis of the obtained information. When necessary, checks were made with Chinese pentaerythritol suppliers regarding market information such as key producers, key end-users, production and export and so on.

### 2) Telephone interview

CCM has carried out extensive telephone interviews in order to grasp the actual market situation of pentaerythritol in China.

Interviewees cover:

- Producers
- End-users
- Traders
- Associations

### 3) Internet

CCM contacted with players in this industry through B2B websites.

Data processing and presentation

The data collected and compiled were sourced from:

- CCM's own database
- Published articles from periodicals, magazines and journals
- Statistics from governments and international institutes
- Telephone interviews with domestic suppliers, end-users, government, industrial experts
- Third-party data providers
- Information from the Internet

The data from various sources have been combined and cross-checked to make this report as precise and scientific as possible. Throughout the process, a series of internal discussions were made in order to analyse the data and have conclusions drawn.



### 3. Executive summary

Facing with increasingly stringent environmental standards, high production costs and other factors, China's pentaerythritol industry is still in tough situation.

#### - Production

As the world's largest producer of pentaerythritol, China had a capacity of XXX t/a as of 2019. In 2019, China's pentaerythritol output was XXX tonnes, down by XXX% year on year. Specifically, the output of dipentaerythritol decreased slightly in 2019.

In 2019, there were XXX producers of pentaerythritol in China, among which,XXX and XXX were two leading pentaerythritol producers in domestic market. XXX was in suspension because it had been required to relocate to industrial park. Most specifications of pentaerythritol were in normal sale this year, but 95% pentaerythritol was in tight supply.

#### - Consumption

In China, pentaerythritol is mainly consumed in the production of alkyd resin, polyurethane (PU), synthetic lubricant, rosin pentaerythritol ester. In 2019, pentaerythritol consumption in the key downstream sector alkyd resin was XXX tonnes. It is estimated that the demand from alkyd resin will decrease slowly in the future.

#### - Import and export

In 2019, China's import volume and export volume of pentaerythritol were XXX tonnes and XXX tonnes respectively, up by XXX% and down by XXX% year on year respectively. China's export volume of dipentaerythritol was XXX tonnes, down by XXX% year on year, reflecting decrease in demand from the overseas market.

South Korea, Taiwan Province and Japan were the three largest export destinations of China's pentaerythritol by volume, together accounting for XXX% of the national total export volume in 2019. Sweden was the top import origin of pentaerythritol to China by volume, followed by Taiwan Province and Germany. China's import volume from Sweden accounted for XXX% of the national total in 2019.

#### 4. What is in the report?

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## 2 Production of pentaerythritol in China

### 2.1 Supply of major raw materials of pentaerythritol

Major raw materials for pentaerythritol production in China include methanol, formaldehyde, acetaldehyde, sodium hydroxide and sulfuric acid. ...

Table 2.1-1 Unit consumption of major raw materials for pentaerythritol production in China

Raw material	Specification	Unit consumption, kg/t
Methanol	XXX	XXX
Formaldehyde	XXX	XXX
Acetaldehyde	XXX	XXX
Sodium hydroxide	XXX	XXX
Sulfuric acid	XXX	XXX

Source: CCM

#### - Methanol

...

Table 2.1-2 Production, import, export and apparent consumption of methanol in China, 2015–2019

Year	Capacity, t/a	Output, tonne	Import volume, tonne	Export volume, tonne	Apparent consumption volume, tonne
2015	XXX	XXX	XXX	XXX	XXX
2016	XXX	XXX	XXX	XXX	XXX
2017	XXX	XXX	XXX	XXX	XXX
2018	XXX	XXX	XXX	XXX	XXX
2019	XXX	XXX	XXX	XXX	XXX

Source: China Customs and CCM

...

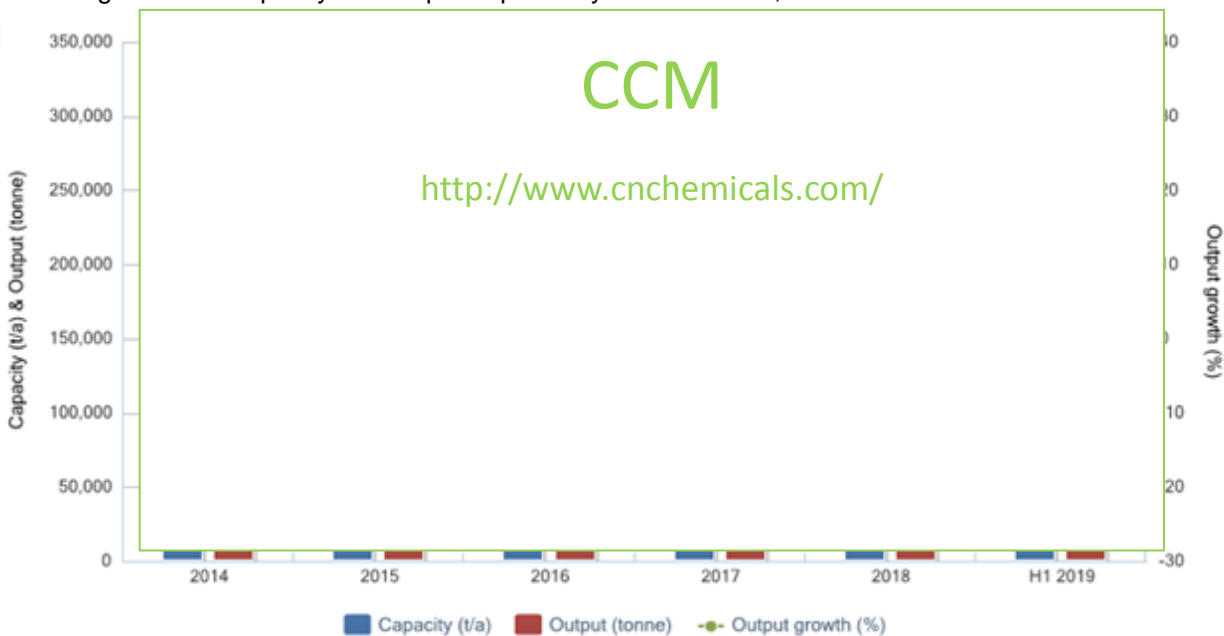
Figure 2.1-1 Ex-works price of 99.9% purified methanol in China, Jan. 2015–Jun. 2020



Source: CCM

#### 2.4 Production of pentaerythritol

Figure 2.4-1 Capacity and output of pentaerythritol in China, 2015–H1 2020



Source: CCM

**Table 2.4-1 Output of monopentaerythritol, dipentaerythritol and tripentaerythritol in China, 2015–H1 2020, tonne**

Year	Monopentaerythritol	Dipentaerythritol	Tripentaerythritol
2015	XXX	XXX	XXX
2016	XXX	XXX	XXX
2017	XXX	XXX	XXX
2018	XXX	XXX	XXX
2019	XXX	XXX	XXX
H1 2020	XXX	XXX	XXX

Source: CCM

**Table 2.4-4 Capacity and output of dipentaerythritol producers in China, 2017–H1 2020**

No.	Producer	Capacity H1 2020, t/a	Output, tonne			
			H1 2020	2019	2018	2017
1	XXX	XXX	XXX	XXX	XXX	XXX
2	XXX	XXX	XXX	XXX	XXX	XXX
3	XXX	XXX	XXX	XXX	XXX	XXX
4	XXX	XXX	XXX	XXX	XXX	XXX
5	XXX	XXX	XXX	XXX	XXX	XXX
6	XXX	XXX	XXX	XXX	XXX	XXX
7	XXX	XXX	XXX	XXX	XXX	XXX
8	XXX	XXX	XXX	XXX	XXX	XXX
9	XXX	XXX	XXX	XXX	XXX	XXX
<b>Total</b>		XXX	XXX	XXX	XXX	XXX

Note: 1. XXX

2. XXX

Source: CCM

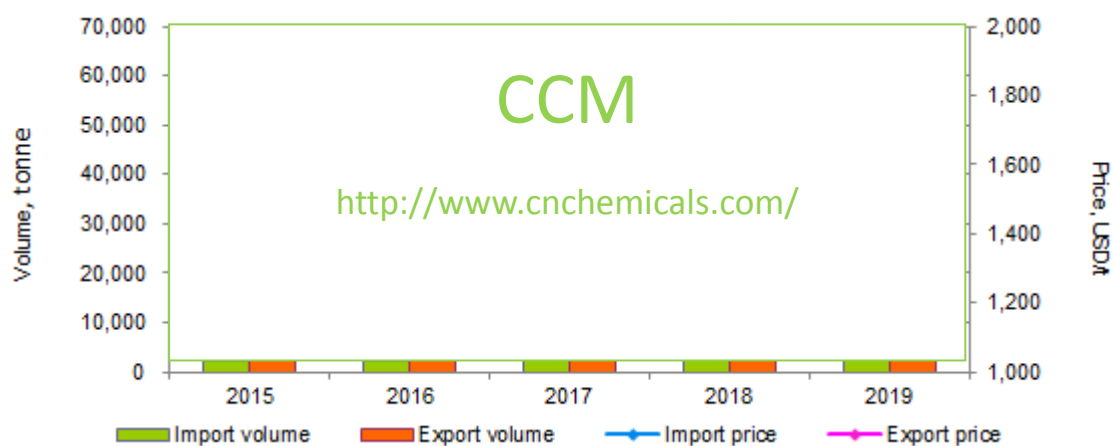
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## 5 Import and export analysis

### 5.2 Import and export of pentaerythritol, 2019

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Figure 5.2-1 China's imports and exports of pentaerythritol, 2015–2019



Source: China Customs & CCM

Table 5.2-1 China's imports and exports of pentaerythritol, 2015–2019

Year	Import			Export		
	Volume, tonne	Value, USD	Price, USD/kg	Volume, tonne	Value, USD	Price, USD/kg
2015	XXX	XXX	XXX	XXX	XXX	XXX
2016	XXX	XXX	XXX	XXX	XXX	XXX
2017	XXX	XXX	XXX	XXX	XXX	XXX
2018	XXX	XXX	XXX	XXX	XXX	XXX
2019	XXX	XXX	XXX	XXX	XXX	XXX

Source: China Customs & CCM

## 6 Consumption of pentaerythritol in China

### 6.1 Consumption pattern

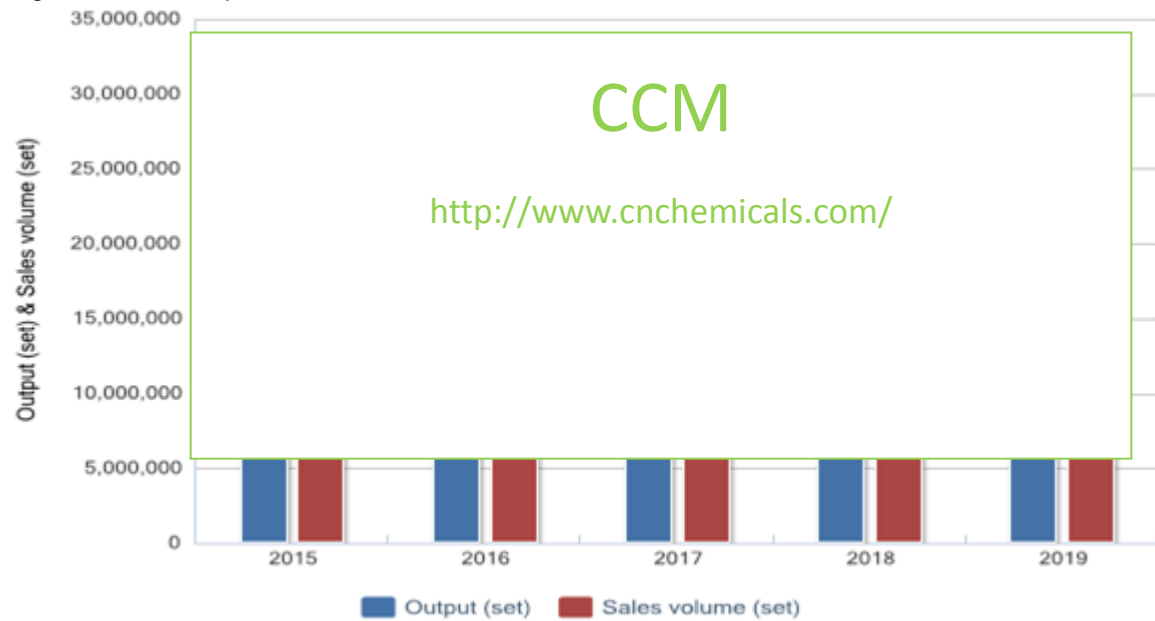
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Figure 6.1-1 Apparent consumption of pentaerythritol in China by end use segment, 2019



Source: CCM

Figure 6.3.1-3 Output and sales volume of automobile in China, 2015–2019

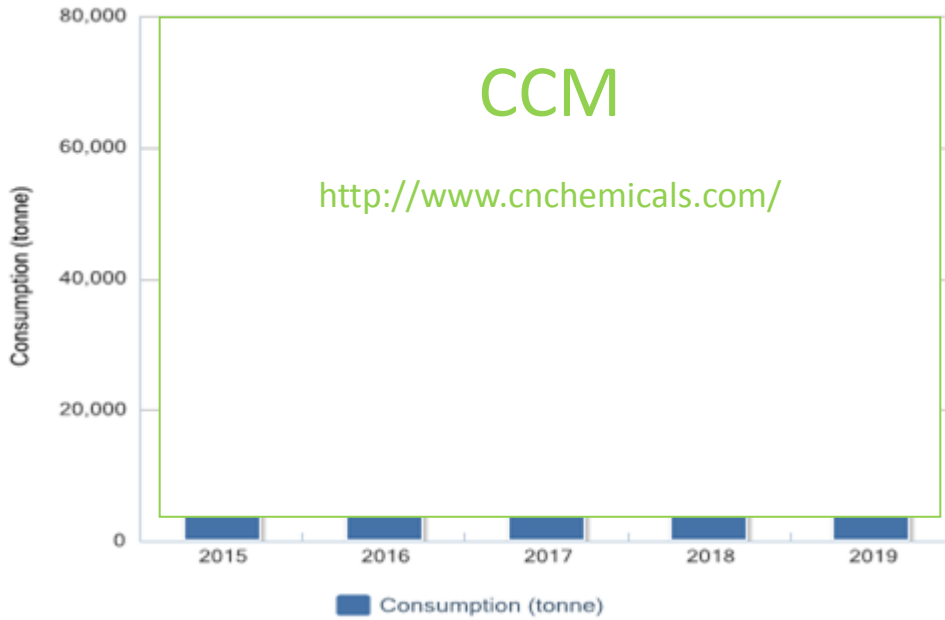


Source: China Association of Automobile Manufacturers

### 6.3 Brief introduction to each major end use segment

#### 6.3.1 Alkyd resin

Figure 6.3.1-1 Pentaerythritol consumption volume in alkyd resin in China, 2015–2019



Source: CCM

Figure 6.3.1-2 Output of coating in China, 2015–2019



Source: National Bureau of Statistics



## 9 Profile of pentaerythritol manufacturers

### 9.1 Active manufacturers

#### 9.1.1 Chifeng Ruiyang Chemical Co., Ltd.

...

Table 9.1.1-1 Capacity and output of pentaerythritol in Chifeng Ruiyang, 2015–H1 2020

Year	2015	2016	2017	2018	2019	H1 2020
Capacity, t/a	XXX	XXX	XXX	XXX	XXX	XXX
Output, tonne	XXX	XXX	XXX	XXX	XXX	XXX

Note: XXX

Source: CCM

...

**If you want more information, please feel free to contact us**

Tel: +86-20-37616606 Fax: +86-20-37616968

Email: [econtact@cnchemicals.com](mailto:econtact@cnchemicals.com)