

Note: Key data/information in this sample page is hidden, while in the report it is not.

1 Production situation of ethanolamine in China

1.1 Introduction to ethanolamine production

In 2011, the capacity and output of ethanolamine reach xxxx t/a and xxx tonnes in China, accounting for xx% and xxx% globally, with CAGR of about xx%, xx% respectively from 2007 to 2011. Both capacity and output in 2011 are xx times than those in 2001 in China.

Table 1.1-2 Production situation of major ethanolamine producers in China, 2010-2011

No.	Abbreviation	Province	Capacity 2011 (t/a)	Capacity 2010 (t/a)	EA output 2011 (tonne)	MEA output 2011 (tonne)	DEA output 2011 (tonne)	TEA output 2011 (tonne)
1	XXXX	XX	100,000	100,000	XXXXX	XXXX	XXXX	XXXXX
2	Akzo Nobel Ninngbo	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXX
3	XXXX	XX	XXXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX
4	BASF—YPC	XX	XXXXX	0	XXXX	XXXX	XXXX	XXXX
5	XXXX	XX	XXXXX	XXXXX	XXXXX	XXXX	3,900	XXXXX
6	XXXX	XX	XXXXX	XXXXX	XXXXX	1,500	XXXX	XXXXX
7	Oriental Yangzhou	Jiangsu	XXXXX	0	XXXXX	XXXX	XXXX	XXXX
8	XXXX	Jilin	XXXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX
9	XXXX	XX	XXXXX	XXXXX	XXXX	XXXX	XXXX	XXXX
10	XXXX	XX	10,000	XXXXX	XXXX	XXXX	XXXX	XXXX
11	XXXX	XX	XXXXX	6,000	XXXX	XXXX	500	XXXX
12	XXXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	2,800
13	XXXX	Hebei	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
14	Jilin Lianteng	XX	XXXX	XXXX	XXXX	2,100	XXX	XXXX
15	XXXX	XX	XXXX	XXXX	1,000	XXXX	100	XXXX
16	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	1,600
17	XXXX	XX	2,000	2,000	XXXX	0	XXXX	XXXX
18	XXXX	XX	1,000	1,000	XXX	XXXX	XXXX	XXXX
19	Xinji Jiashuo	XX	XXXX	XXXX	XXX	XXXX	XXXX	400
20	XXXX	Jiangsu	600	0	200	XXXX	XXXX	XXXX
21	Xinji Baodu	XX	XXX	XXX	XXXX	XXXX	XXXX	XXXX
22	XXXX	XX	200	200	100	XXXX	XXXX	XXXX
23	XXXX	XX	XXXX	XXXX	0	XXXX	XXXX	XXXX
Total			XXXXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX

Source: CCM International

1.2 Introduction to production technology of ethanolamine

Table 1.2-1 Introduction to product structure and production cost for major ethanolamine production technologies in China, 2011

Index	Patent owner	Zhejiang University		US SD Company		Switzerland Sulzer Company		
		Item	Product	Product	Product	Product	Product	Product
			purity (%)	proportion (%)	purity (%)	proportion (%)	purity (%)	proportion (%)
Product purity and proportion	Monoethanolamine	99.5	xx	xxxx	21.4	99.6	xx	
	Diethanolamine	xxxx	65	99.6	42.7	xxxx	xx	
	Triethanolamine	99.5 and 92	xx	xxxx	xxxx	xxxx	35	
Manufacturing cost		Price (USD)	Unit consumption (tonne)	Cost (USD/t)	Unit consumption (tonne)	Cost (USD/t)	Unit consumption (tonne)	
Consumption of raw material (tonne)	Ethylene oxide	xxxxxx	0.850	xxxxx	xxxxxx	xxxxxx	xxxx	xxxxxx
	liquid ammonia	xxxxx	xxxxxx	xxx	xxxxxx	xxx	0.180	xxx
Energy consumption	Electricity (KWH)	xxx	xxx	xx	xxxx	50	xxxx	xx
	Cooling water (tonne)	xxx	xxx	60	xxx	xx	xxx	xx
	High-pressure steam (tonne)	xxx	xxxxxx	xxx	4.6	xxxxxx	xxx	xxx
	Low-pressure steam (tonne)	34.92	xxxxxx	xxx	x	x	xxx	xx
Total		/	/	xxxxxxx	/	xxxxxxx	/	xxxxxxx

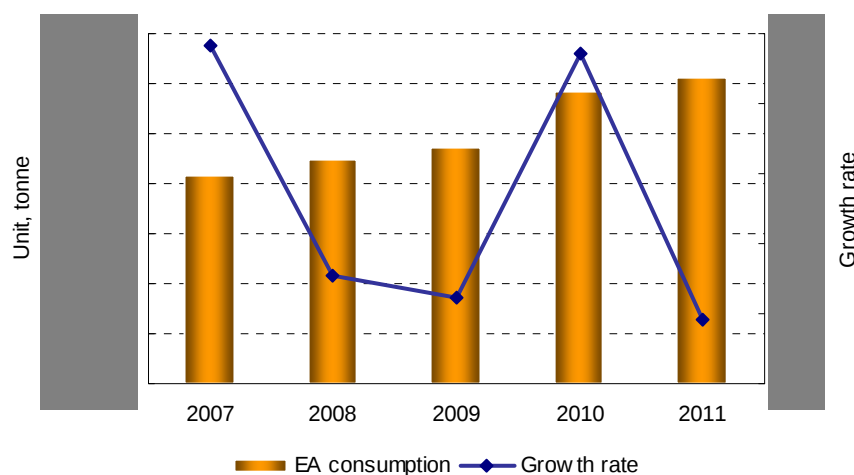
Source: CCM International

2 Ethanolamine consumption in China

2.1 Summary of ethanolamine consumption

From 2007 to 2011, China's ethanolamine consumption keeps uptrend, with CAGR of xxx%.....

Figure 2.1-1 Ethanolamine consumption and its growth rate in China, 2007-2011



Source: CCM International

2.2 Summary of monoethanolamine consumption

2.2.3 Monoethanolamine applied in organic synthesis

As the most potential consumption field of monoethanolamine, organic synthesis industry which uses monoethanolamine as raw material achieves great development in China in 2011, attributing to the commissioning of large scale ethylenediamines production lines.....

Table 2.2.3-1 List of organic synthesis producers using ethanolamine in China, 2011

Code	Company name	Province	Product	Capacity, t/a
1	Akzo Nobel Ethylene Amines (Ningbo) Co., Ltd.	XXXX	XXX	XXXXX
2	XXXXXXXX	XXXX	Ethylenediamines	10,000
3	XXXXXXXX	XXXX	XXXXX	XXXX
4	XXXXXXXX	Shandong	XXXXX	1,500
5	XXXXXX	XXXX	PVP	XXXX
6	XXXXXXXX	Shandong	XXXX	500
7	Zhejiang Hangzhou Yinhu Chemical Co., Ltd.	XXX	XXX	XXX

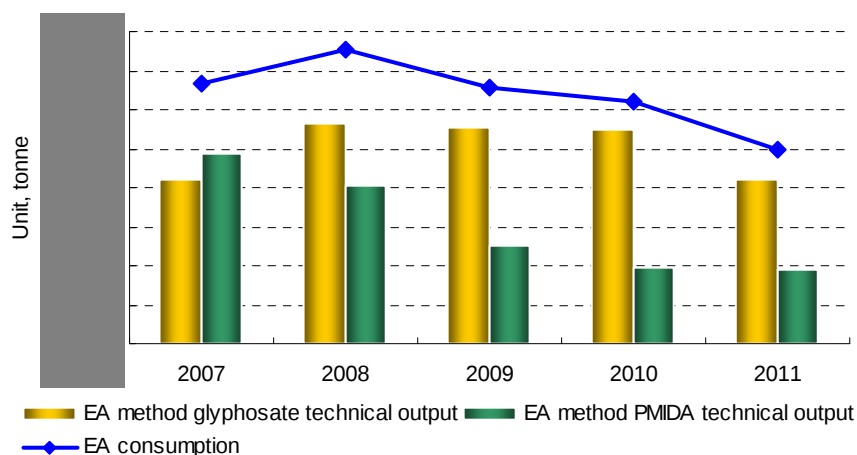
Source: CCM International

2.3 Summary of diethanolamine consumption

2.3.1 Diethanolamine applied in agrochemicals

Agrochemicals is the largest consumption field of diethanolamine in China, and the main two products in agrochemicals are glyphosate and PMIDA....

Figure 2.3.1-1 Output of glyphosate and PMIDA technical using ethanolamine and their consumption of ethanolamine in China, 2007-2011

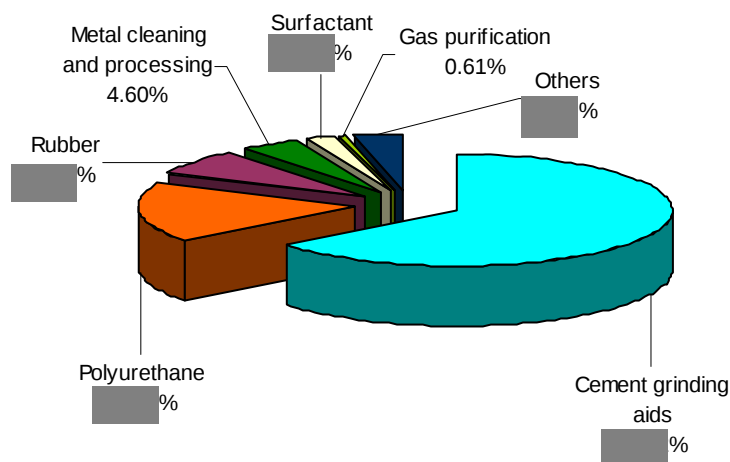


Source: CCM International

2.4 Summary of triethanolamine consumption

Driven by the rapid development of cement grinding aids and polyurethane, the consumption of triethanolamine increases stably and fast.....

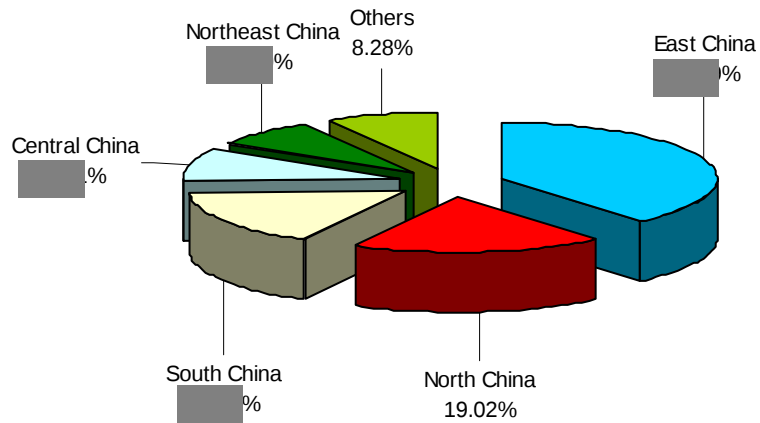
Figure 2.4-1 Consumption pattern of triethanolamine in China, 2011



Source: CCM International

Compared with monoethanolamine and diethanolamine, the distribution of triethanolamine in China is separated since.....

Figure 2.4-2 Distribution of triethanolamine consumption in China, 2011



Source: CCM International