

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

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In 2011, the output of ethanolamine is about XXX tonnes in China, accounting for over XX% in global. From 2007-2011, the CAGR of China's ethanolamine output is about XX%. After ten-years' development, both the capacity and output of China's ethanolamine in 2011 are about XX times than those in 2001.

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

No.	Abbreviation	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	100,000	100,000	XXXXX	XXXX	XXXX	XXXXX
2	Akzo Nobel Ningbo	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXX
3	XXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX
4	BASF-YPC	XXXXX	0	XXXX	XXXX	XXXX	XXXX
5	XXXX	XXXXX	XXXXX	XXXXX	XXXX	3,900	XXXXX
6	XXXX	XXXXX	XXXXX	XXXXX	1,500	XXXX	XXXXX
7	Oriental Yangzhou	XXXXX	0	XXXXX	XXXX	XXXX	XXXX
8	XXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX
9	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXX	XXXX
10	XXXX	10,000	XXXXX	XXXX	XXXX	XXXX	XXXX
11	XXXX	XXXXX	6,000	XXXX	XXXX	500	XXXX
12	XXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	2,800
13	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
14	Jilin Lianteng	XXXX	XXXX	XXXX	2,100	XXX	XXXX
15	XXXX	XXXX	XXXX	1,000	XXXX	100	XXXX
16	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	1,600
17	XXXX	2,000	2,000	XXXX	0	XXXX	XXXX
18	XXXX	1,000	1,000	XXX	XXXX	XXXX	XXXX
19	Xinji Jiashuo	XXXX	XXXX	XXX	XXXX	XXXX	400
20	XXXX	600	0	200	XXXX	XXXX	XXXX
21	Xinji Baodu	XXX	XXX	XXXX	XXXX	XXXX	XXXX
22	XXXX	200	200	100	XXXX	XXXX	XXXX
23	XXXX	XXXX	XXXX	0	XXXX	XXXX	XXXX
Total		XXXXXX	XXXXXX	XXXXX	XXXXX	XXXXX	XXXXXX

Note: Wenzhou Qingming Chemical Co., Ltd. is not in above table since it has...

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

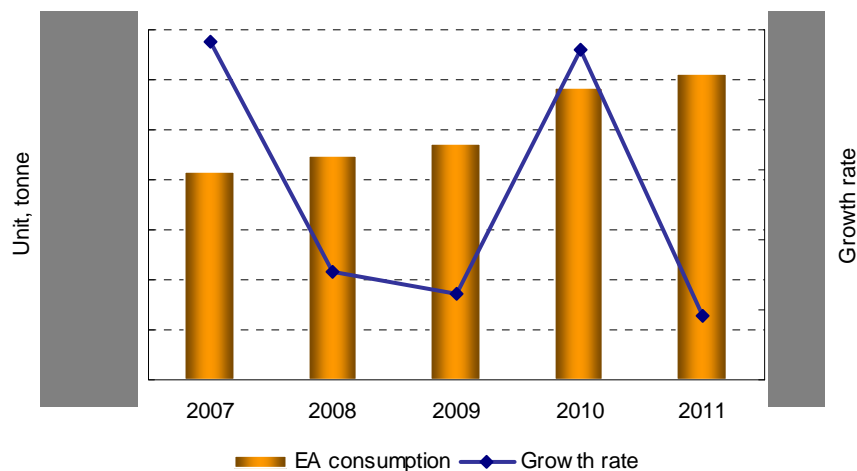
Index	Patent owner	Zhejiang University		US SD Company		Switzerland Sulzer Company	
		Item	Product purity (%)	Product proportion (%)	Product purity (%)	Product proportion (%)	Product purity (%)
Product purity and proportion	Monoethanolamine	99.5	xx	xxxx	21.4	99.6	xx
	Diethanolamine	xxxx	65	99.6	42.7	xxxx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

Source: CCM International

2 Ethanolamine consumption in China

2.1 Summary of ethanolamine consumption

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



Source: CCM International

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

2.2 Summary of monoethanolamine consumption

2.2.3 Monoethanolamine applied in organic synthesis

As the greatest potential consumption field of monoethanolamine, the organic synthesis using monoethanolamine as raw material gained leap development in China in 2011, thanks to the commission of large-scale production lines of ethyleneamines...

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

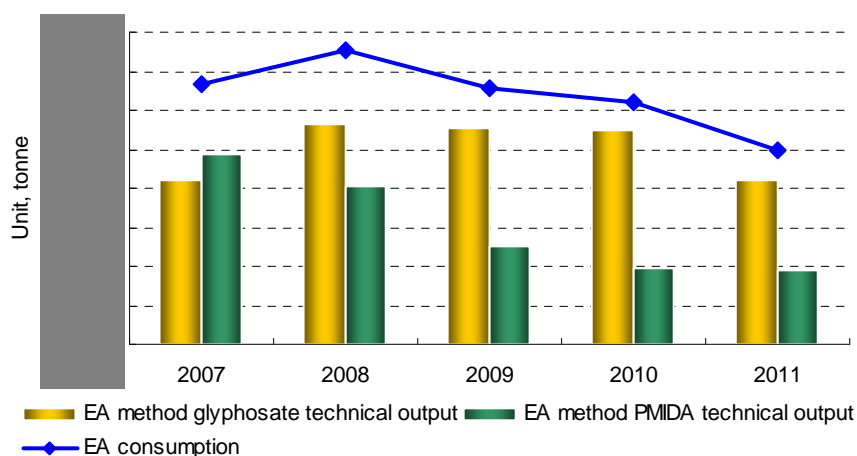
Source: CCM International

2.3 Summary of diethanolamine consumption

2.3.1 Diethanolamine applied in agrochemicals

Agrochemical industry is the largest consumption field of diethanolamine, with two major products of glyphosate and PMIDA. In 2011, 49,660 tonnes diethanolamine is consumed in glyphosate and PMIDA production...

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

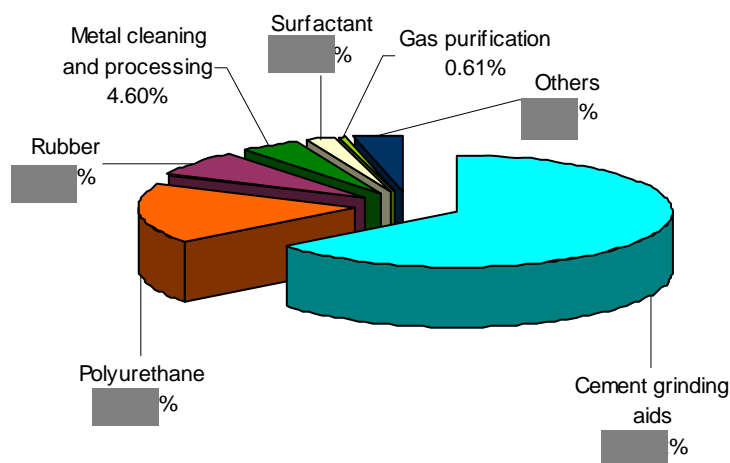


Source: CCM International

2.4 Summary of triethanolamine consumption

Promoted by fast development of cement grinding aid and polyurethane, the consumption of triethanolamine in China keeps stable and rapid growth. In 2011, the consumption of triethanolamine reaches XXXX tonnes in China...

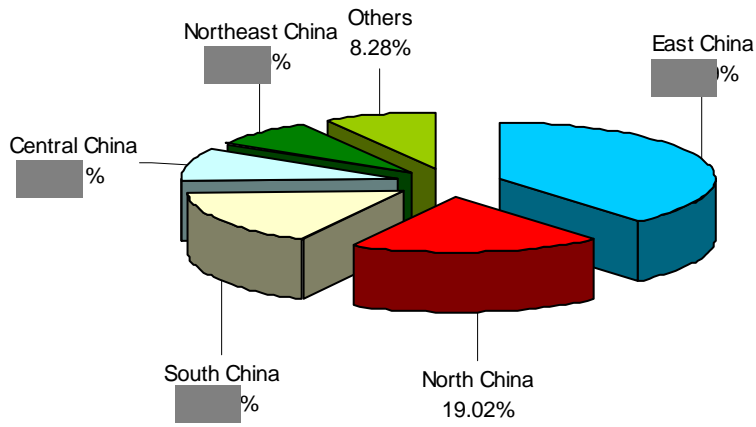
Figure 2.4-1 Consumption pattern of triethanolamine in China, 2011



Source: CCM International

Compared with monoethanolamine and diethanolamine, the distribution of triethanolamine consumption is more dispersed in China because of...

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



Source: CCM International