

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

1 Overview of glycine in China

1.1 Introduction of glycine in China

Table 1.1-1 Supply and demand of glycine in China, 2010-2015

Year	Capacity, t/a		Output, tonne		Export (others), tonne	Consumption, tonne	
	Tech-grade	Others	Tech-grade	Others		Tech-grade	Others
2010							
2011							
2012							
2013							
2014							
2015							

Note: 1. The year- end inventory of tech-grade glycine is taken into account, while that of others is not;

2. Others include feed-grade, food-grade and pharmaceutical-grade glycine.

3. Export data in 2015 is estimated.

Source: CCM

Table 1.1-2 Supply and demand of glycine except tech-grade in China, 2010-2015, tonne

Year	Output			Export			Consumption		
	Food -grade	Feed -grade	Pharmaceutical -grade	Food -grade	Feed -grade	Pharmaceutical -grade	Food -grade	Feed -grade	Pharmaceutical -grade
2010									
2011									
2012									
2013									
2014									
2015									

Note: 1. The year- end inventory is not taken into account.

2. Export data in 2015 is estimated.

Source: CCM

2 Supply of glycine in China

2.1 Production of glycine in China

2.1.1 Capacity and output of glycine in China, 2010-2015

Table 2.1.1-1 Capacity and output of glycine in China, 2010-2015

Year	Capacity, t/a		Output, tonne			
	Tech-grade	Others	Tech-grade	Food-grade	Feed-grade	Pharmaceutical-grade
2010						
2011						
2012						
2013						
2014						
2015						

Note: Others include food-grade, feed-grade and pharmaceutical-grade.

Source: CCM

2.1.2 Key glycine producers in China

2.1.2.1 Producers' production situation for various grades glycine

Table 2.1.2.1-1 Production for various grades glycine in China by producer, 2015

No.	Company	Abbreviation	Status '15	Production situation '15			
				Tech -grade	Food -grade	Feed -grade	Pharmaceutical -grade
1	Hebei Donghua Chemical Group	Hebei Donghua	Active	√	√	√	√
2			Active				
3			Active				
4			Active				
5			Active				
...			Active				
...			Active				
...			Active				
...			Active				
...			Active				
...			Active				
...			Active				
...			Active				

Note: √: produce, X: not produce

Source: CCM

Table 2.1.2.1-2 Glycine capacity in China by producer, 2010-2015, t/a

No.	Company	Capacity '15		Capacity '14		Capacity '13		Capacity '12		Capacity '11		Capacity '10	
		Tech-grade	Others	Tech-grade	Others	Tech-grade	Others	Tech-grade	Others	Tech-grade	Others	Tech-grade	Others
1	Hebei Donghua												
2													
3													
4													
...													
Others													
Total													

Note: Others include food-grade, feed-grade and pharmaceutical-grade.

Source: CCM

2.1.2.2 Producers' distribution and market share of glycine producers in China, 2015

Table 2.1.2.2-1 Industrial concentration of tech-grade glycine in terms of output in China, 2010-2015

No.	Item	Value					
		2015	2014	2013	2012	2011	2010
1	Top one concentration ratio						
2	Top five concentration ratio						
3	Top ten concentration ratio						
4	Herfindahl-Hirschman Index (HHI)						

Source: CCM

2.1.2.4 Producers' output of glycine in China

Table 2.1.2.4-1 Output of glycine in China by producer, 2010-2015, tonne

No.	Company	Output '15		Output '14		Output '13		Output '12		Output '11		Output '10	
		Tech-grade	Others	Tech-grade	Others	Tech-grade	Others	Tech-grade	Others	Tech-grade	Others	Tech-grade	Others
1	Hebei Donghua												
2													
3													
...													
Others													
Total													

Source: CCM

2.1.2.5 Producers' inventory of glycine in China

Table 2.1.2.5-1 Inventory of glycine in China by producer, 2010-2015, tonne

No.	Company	Inventory '15	Inventory '14	Inventory '13	Inventory '12	Inventory '11	Inventory '10
1	Hebei Donghua						
2							
3							
4							
...							
Others							
Total							

Note: The year end inventory of tech-grade glycine is taken into account, while that of others is not.

Source: CCM

2.1.3 Potential production lines of glycine in China

Table 2.1.3-1 Potential projects of glycine in China

Classification	Company	Designed capacity, t/a	Planned commissioning date	Details
Expansion		tech-grade		
		tech-grade		
		tech-grade		
		tech-grade, feed-grade, t/a food-grade		
		food-grade, pharmaceutical-grade		
Remove		tech-grade		
New		1 st phase tech-grade		
		food-grade		
		2 nd phase tech-grade		
		food-grade		
		tech-grade		
		tech-grade		
		food-grade, feed-grade, pharmaceutical-grade		

Source: CCM

2.3 Export of glycine in China

2.3.3 Export destination of glycine in China , 2010-2015 (Oct. 2015)

Table 2.3.3-1 China's exports of glycine by destination, 2014

No.	Country/region	Food-grade		Feed-grade		Pharmaceutical-grade	
		Volume, tonne	Price, USD/t	Volume, tonne	Price, USD/t	Volume, tonne	Price, USD/t
1							
2							
3							
4							
5							
...							
...							
...							
Others							
Total							

Source: China Customs, CCM

2.3.4 Exporter of glycine in China, 2010-2015 (Oct. 2015)

Table 2.3.4-1 China's exports of glycine by exporter, 2014

No.	Exporter	Food-grade		Feed-grade		Pharmaceutical-grade	
		Volume, tonne	Price, USD/t	Volume, tonne	Price, USD/t	Volume, tonne	Price, USD/t
1	*						
2	*						
3							
4							
5							
...							
...	*						
...							
Others							
Total							

Note: * Glycine producers or their related companies

Source: China Customs, CCM

3 Demand of glycine in China

3.2 Major application segments of glycine in China, 2013-2015

3.2.1 Glyphosate

Table 3.2.1-1 Consumption of glycine in glyphosate in China, 2010-2015, tonne

Year	2010	2011	2012	2013	2014	2015 est.
Output of glyphosate (glycine route)						
Consumption of glycine						

Source: CCM

Table 3.2.1-2 Major glyphosate producers adopting glycine route in China, as of Dec. 2015

No.	Company	Abbreviation	Status 2015	Capacity 2015, t/a	Output, tonne		
					2015	2014	2013
1			Active				
2			Active				
3			Active				
4			Active				
5			Active				
...			Active				
...			Active				
...			Active				
...			Active				
Others							
Total							

Note: Companies with * have two production routes, and in the above table only the capacity and output of glycine route are presented.

Source: CCM