

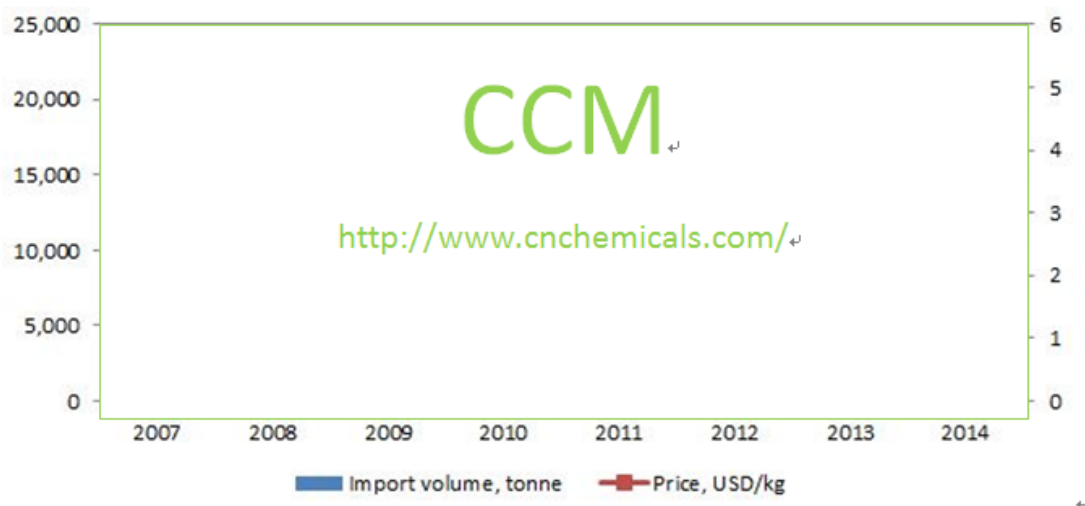
Key data/information in this sample page is hidden, while in the report it is not.

2 Paraquat upstream industry

2.2 Introduction to major raw materials for paraquat production

2.2.1 Pyridine

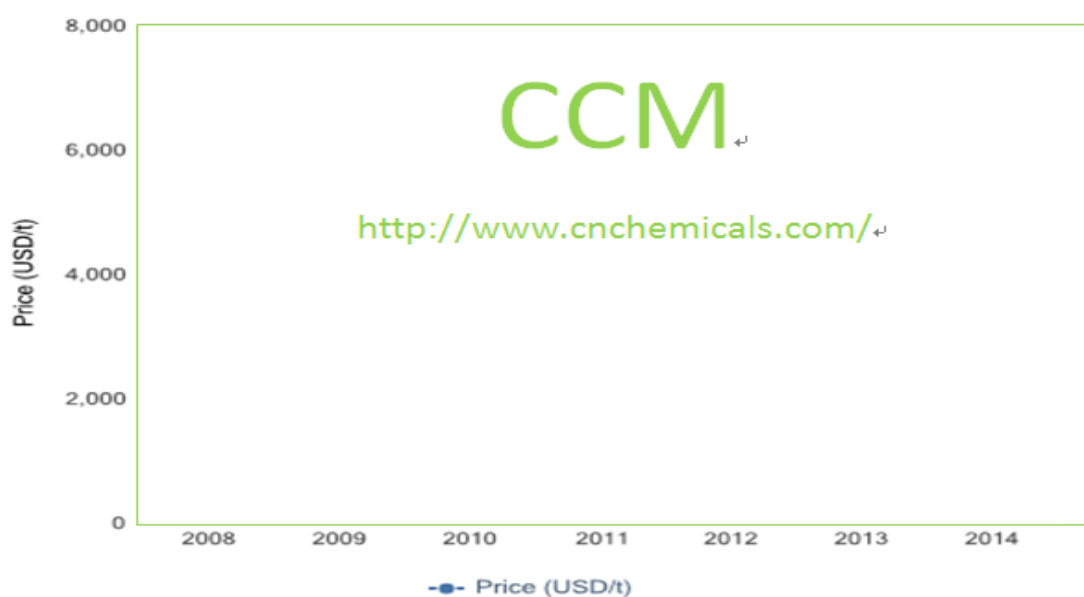
Figure 2.2.1-1 China's import of pyridine by volume and price, 2007-2014



Source: China Customs and CCM

Price of pyridine

Figure 2.2.1-2 Ex-works price of 99.9% pyridine in China, 2008-2014



Source: CCM

Table 2.2.1-4 Apparent consumption of pyridine in China, 2009-2014, tonne

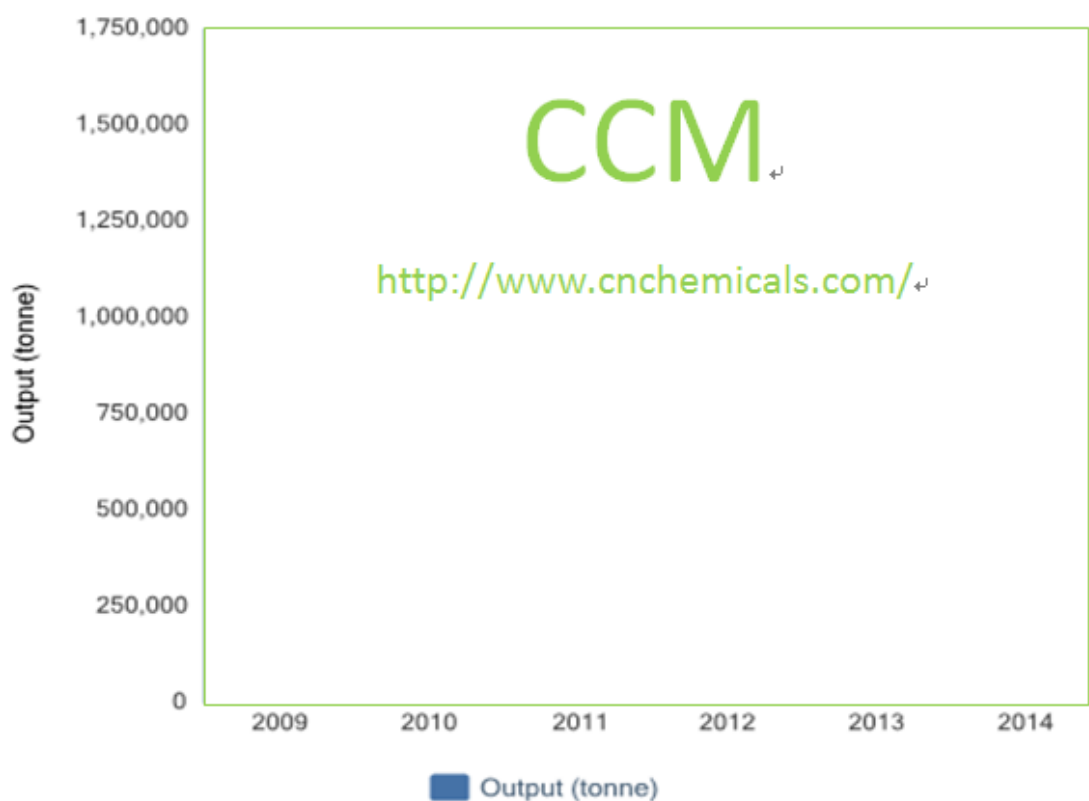
Year	Output	Export	Import	Apparent consumption
2009				
2010				
2011				
2012				
2013				
2014				

Note: Apparent consumption = Output + Import - Export.

Source: China Customs and CCM

2.2.2 Methyl chloride

Figure 2.2.2-1 Output of chloride methane in China, 2009-2014



Note: Chloride methane here includes methyl chloride, dichloromethane, chloroform, etc.

Source: CCM

3 Paraquat industry in China

3.2 Production technology of paraquat

3.2.3 Production cost

Table 3.2.3-2 Manufacturing cost of paraquat 42% TK by AC process in China, April 2015

No.↕	Raw material↕	Content↕	Unit consumption (t/t)↕	Price (USD/t)↕	Unit cost (USD/t)↕
1↕	Pyridine↕	<div>CCM↕</div> <div>http://www.cnchemicals.com/↕</div>			
2↕	Sodium cyanide↕				
3↕	Methyl chloride↕				
4↕	Chlorine↕				
Other raw materials↕					
Other costs↕					
Waste treatment cost↕					
Total↕					

Note: 1) All data are theoretical. The yield rate is estimated to be 85%, which can be achieved by most paraquat manufacturers in China.

2) The price of pyridine is the ex-works price of homemade pyridine.

3) Other raw materials include methanol, sodium hydroxide, etc.

4) Other costs include utility cost, labor cost, etc.

Source: CCM