

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

## 1 Organic-fluorides intermediates

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### 1.2 Main synthesis technique of organic-fluorides intermediates in China

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#### 1.2.2 Comparison with different routes

In China, with fluorite resource advantage, most based organic-fluorides has been produced for intermediates, and the main synthesis route for substitution fluorine group are diazotization, halogen exchange and direct fluorination.

Diazotization as tradition technique route has many disadvantages and direct fluorination with many advantages need more input to research and develop for many producers in China.

Table 1.2.2-1 Comparison of 3 different synthesis techniques for organic-fluorides in China, 2010

Technology route	Strength	Weakness	Main Fluorination
Diazotization	- [REDACTED] - [REDACTED]	- [REDACTED] - [REDACTED] - [REDACTED] - [REDACTED]	- [REDACTED] - [REDACTED]
Halogen exchange	- [REDACTED] - [REDACTED] - [REDACTED]	- [REDACTED] - [REDACTED]	- [REDACTED] - [REDACTED]
Direct fluorination	- [REDACTED] - [REDACTED] - [REDACTED] - [REDACTED]	- [REDACTED] - [REDACTED] - [REDACTED] - [REDACTED]	- [REDACTED] - [REDACTED]

Source: CCM International

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### 1.3 Production status of organic-fluorides intermediates in China

#### 1.3.1 Applications of organic-fluorides intermediates in China

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(1) Pharmaceuticals

China is one of the largest producers and exporters of pharmaceuticals in the world. From 1978 to 2007, pharmaceutical industry's output value has grown consistently in China with average annual growth rate of xxx%. The industry has become one of the fastest-growing sectors in China. From 2007 to 2010, it still maintained an upward momentum with output value estimated at xxx in 2010.

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Table 1.3.1-1 Main producers of ofloxacin flumequine series medicine in China, 2010

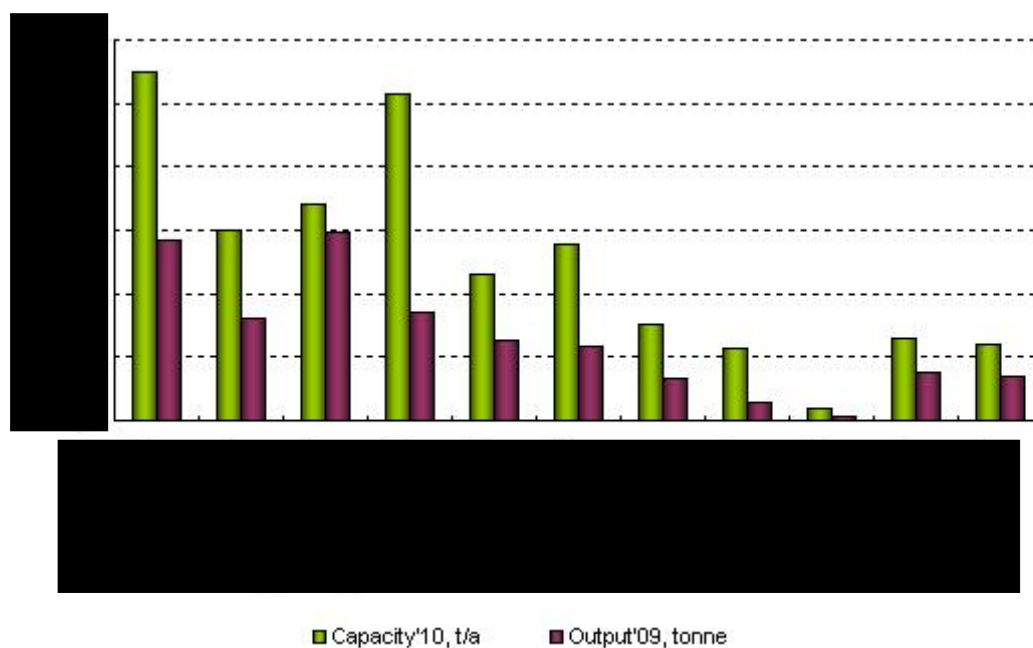
NO	Company	Abbreviation	Capacity'10, t/a	Main products
1	[REDACTED]	[REDACTED]	[REDACTED]	ciprofloxacin, ofloxacin
2	[REDACTED]	[REDACTED]	1,200	[REDACTED]
3	Zhejiang Xinhua Pharmaceutical Co., Ltd.	[REDACTED]	[REDACTED]	[REDACTED]
4	[REDACTED]	Zhejiang Huayi	[REDACTED]	[REDACTED]

Source: CCM International

(2) Agrochemical

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Figure 1.3.1-1 Production status of main fluor-pesticide in China, 2010



Source: CCM International