

中华人民共和国国家 环境 准

HJ 1330—2023

固定污染源废气 氨和氯化氢的测定 便携式傅立叶变换红外光谱法

2023-12-05

2024-07-01

1	.....	1
2	.....	1
3	.....	1
4	.....	2
5	.....	2
6	.....	2
7	.....	2
8	.....	3
9	.....	3
10	.....	4
11	.....	5
12	.....	5
13	.....	6
A	.....	7



1330 2023

1

NH₃ HC

NH₃ HC
NH₃ HC
1 / 3 4 / 3

2

GB/T 16157
HJ 75
HJ/T 373
HJ/T 397
HJ 1011

SO₂ NO

3

3.1

calibration

3.2

adjustment

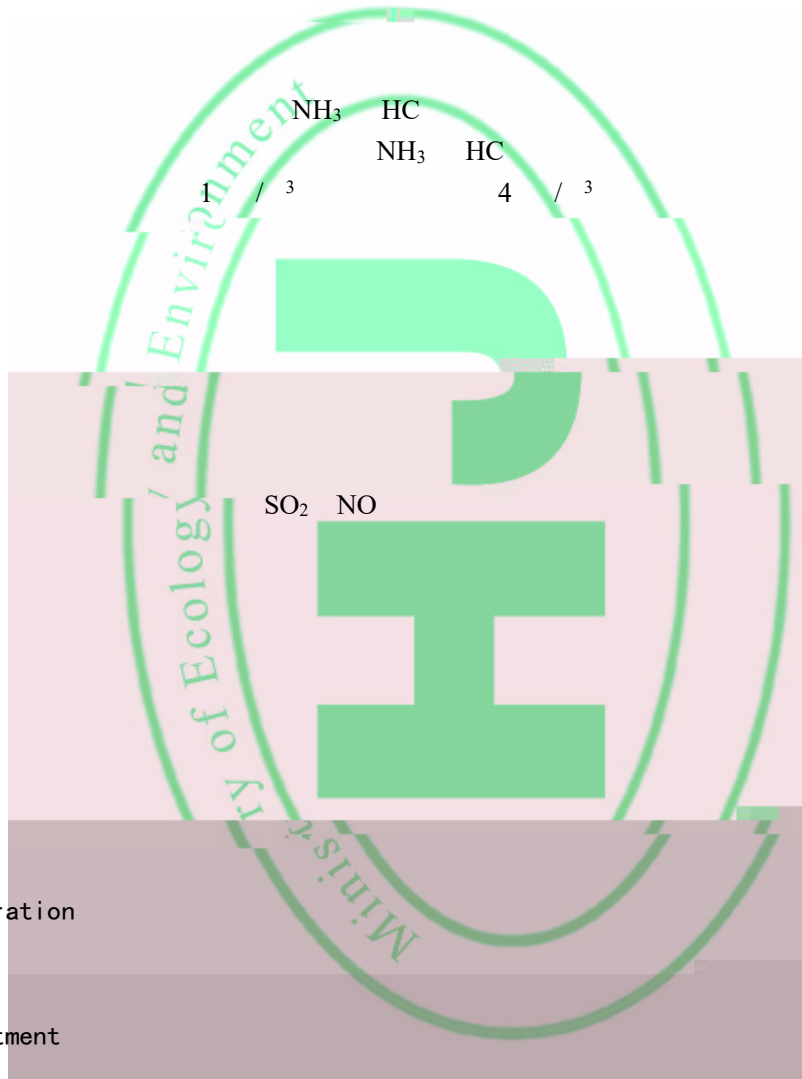
3.3

calibration span (C.S.)

3.4

error of indication

3.5



1330 2023

system bias

3.6

zero drift

3.7

span drift

4

NH₃ HC

900 -1 1350 -1 2600 -1 3100 -1

HC

NH₃

5

NH₃ HC

5.1

NH₃ HC

180

5.2

5.3

6

6.1

NH₃ HC

N₂

2% $k=2$

6.3

6.2

99.999% N₂

6.3

5 L/

50%

0.5%

50%

1.0%

7

7.1

7.1.1

7.1.2

a	NH ₃	HC	60	/	5%	60	/
	3	/					
b	NH ₃	HC	60	/	5%	60	/
	3	/					
	NH ₃	HC	60	/	3%	60	/
	3	/					
	NH ₃	HC	60	/	3%	60	/
	3	/					

900⁻¹ 4000⁻¹

180 5

HJ 1011 II

8

GB/T 16157 HJ 75 HJ/T 373 HJ/T 397

9

9.1

9.2

9.2.1

9.2.2

7.1.2 a

9.3

9.3.1

9.3.2

5 15

1

9.3.3

9.3.4

10 与

10.1

273 K 101.325 Pa

a

1

ρ

$$\rho = \frac{M}{22.4} \times x' \times \frac{1}{1-\varphi}$$

1

ρ

/³

M

/

22.4

L/

x'

/

φ

b

2

ρ

$$\rho = \rho' \times \frac{1}{1-\varphi}$$

2

ρ

/³

ρ'

/³

φ

10.2

11

11.1

	5 / 3	20 / 3	60 / 3	100 / 3	NH ₃						
6					0.26%	2.3%	0.25%	0.63%	0.19%	1.6%	0.12%
6											
0.63%			7.2%	5.6%							

:

13

13.1

13.2

13.3

13.4

13.5

13.6



(A)

/ / 3

A. 1

x

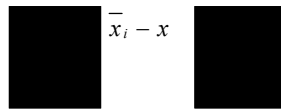
x_i

\bar{x}_i

x_i

\bar{x}_i

1
2



A. 3

	x	$x_{i,0}$	x_i	$x_1=x_i$	$x_{i,0}$	$x_{j,0}$	x_j	$x_2=x_j$	$x_{j,0}$
1									
2				$x_1=x_i$	$x_{i,0}$			$x_1/C.S. \times 100\%$	C.S.
3				$x_2=x_j$	$x_{j,0}$			$x_2/C.S. \times 100\%$	C.S.

