



HJ 895-2017

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Water quality—Determination of methanol and acetone
—Headspace gas chromatography

2017-12-21

2018-02-01

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

/

A

2017 12 21
2018 2 1

/

1

/

10 ml
0.02 mg/L

0.08 mg/L

0.2 mg/L

0.8 mg/L

2

GB 17378.3
HJ/T 91
HJ/T 164

3

3

4

6% 25 mg/L
+94%

-

5

5.1

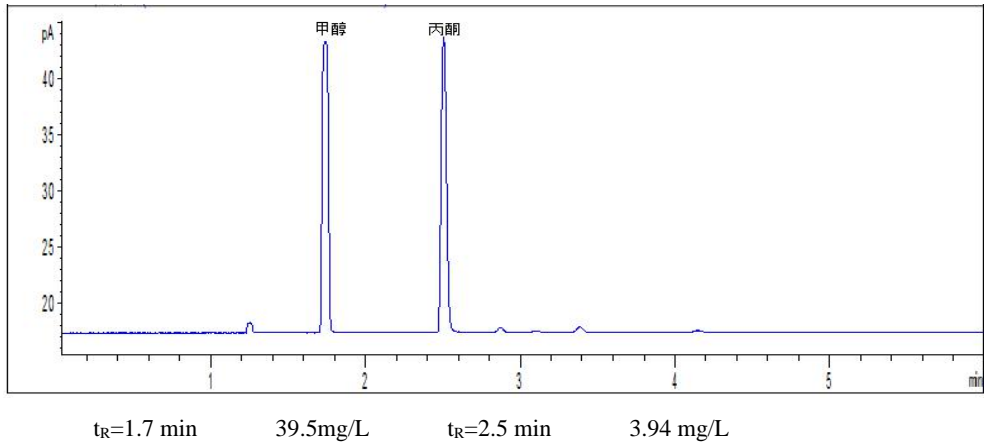
15 min

5.2 HCl $\rho=1.19$ g/ml

5.3 1+1

	100 ml	5.2	100 ml	5.1			
5.4	NaCl						
	400	2 h					
5.5	C ₆ H ₈ O ₆						
5.6	CH ₃ OH						
5.7	CH ₃ COCH ₃						
5.8			$\rho(\text{CH}_3\text{OH})$ 3×10^4 mg/L	$\rho(\text{CH}_3\text{COCH}_3)$ 3×10^3 mg/L			
		5.1	100 ml			5.6	
	3.0 g	0.1 mg					
		5.7	0.3 g	0.1 mg			
				5.1			
			1 mg/L				
5.9			$\rho(\text{CH}_3\text{OH})$ 300 mg/L	$\rho(\text{CH}_3\text{COCH}_3)$ 30 mg/L			
	1.00 ml		5.8	100 ml		5.1	
5.10		99.999					
5.11		99.999					
5.12			5Å				
6							
6.1			FID	/			
6.2				250		± 1	
6.3			30 m	×530 m	×1.0 m		
6.4			30 m	×530 m	×3.0 m		
	6%	+94%					
6.5		0.0001 g					
6.6	22 ml			/	/		
					6.2		
6.7		5 μl	10 μl	25 μl	100 μl	250 μl	1.0 ml
6.8	40 ml			-			
6.9							
7							
7.1							
	HJ/T 91	HJ/T 164	GB 17378.3				

5 mg/L
 0.001g
 25 mg
 0.001 g
 5.5
 5 mg/L
 25 mg
 6.8
 7.2
 14 d
 4
 5.3
 pH 2
 4
 24 h
 7.3
 10.0 ml
 3.0 g
 5.4
 6.6
 10.0 ml
 7.4
 5.1
 7.3
 8
 8.1
 8.1.1
 80
 30 min
 100
 110
 1.0 ml
 8.1.2
 50
 6 min
 5 /min
 100
 2 min
 5
 /min
 200
 5 min
 200
 3 1
 5.10
 5.0 ml/min
 280
 5.11
 30 ml/min
 5.12
 300 ml/min
 8.2
 6.6 7
 3.0 g
 5.4
 10.00 ml
 0 µl 25 µl 50 µl 100 µl
 5.9 5 µl 10 µl 15 µl



2

9.2

			mg/L	1	
	ρ_i	x_i	f		1
ρ_i	—		mg/L		
ρ_{xi}	—		mg/L		
f	—				

9.3

	10.0 mg/L	1	10.0 mg/L
3	1.00 mg/L	2	1.00 mg/L
3			

10

10.1

	0.8 mg/L	7.9 mg/L	39.5 mg/L	0.08 mg/L				
0.79 mg/L	3.94 mg/L		6					
1.2%	7.3%	2.2%	4.4%	1.5%	5.1%	1.8%	0.8%	1.0%
	0.1 mg/L	0.7 mg/L	2.8 mg/L	0.1 mg/L	0.7 mg/L			
2.9 mg/L			3.1%	8.6%	1.4%	5.4%	0.9%	2.1%
	4.8%	1.3%	0.6%	0.01 mg/L	0.09 mg/L			
0.20 mg/L	0.02 mg/L	0.10 mg/L	0.20 mg/L					
			7.9 mg/L	39.5 mg/L				
0.79 mg/L	3.94 mg/L		6					
	2.2%	11%	1.4%	5.1%	3.6%	0.9%		
1.1 mg/L	3.1 mg/L		1.3 mg/L	3.2 mg/L				

1.3% 3.0% 1.5% 3.0% 3.1% 2.1%
 0.5 mg/L 2.4 mg/L 0.8 mg/L 3.2 mg/L
 1.4% 5.9% 1.8% 9.7%
 3.1% 2.3% 0.08 mg/L 0.54 mg/L 0.10 mg/L 0.55 mg/L
 1.5% 3.7% 1.6% 5.2%
 2.4% 1.7% 0.06 mg/L 0.41 mg/L
 0.07 mg/L 0.42 mg/L

A

10.2

7.9 mg/L
 39.5 mg/L 0.79 mg/L 3.94 mg/L
 87.3% 97.1% 94.1% 96.3% 93.7% ± 6.8% 95.4% ± 1.6%
 89.7% 98.5% 90.4% 97.0% 93.6% ±
 5.8% 94.3% ± 4.4% 77.2% 110% 81.2% 102%
 94.2% ± 24.4% 94.7% ± 14.8% 85.0%
 101% 88.1% 98.4% 92.8% ± 12.4% 92.7% ± 8.2%
 92.3% 101% 94.5% 100% 94.7% ±
 6.0% 96.4% ± 4.0% 93.1% 99.0% 95.7% 100%
 94.6% ± 4.4% 97.1% ± 3.2%

A

11

11.1

11.2

0.995
 20 20
 ± 20%
 11.3
 20 20 /
 20%

11.4

20 20 /

70% 120%

12

A

A. 1

	mg/L	%	%	mg/L ^r	mg/L ^R
	0.8	1.2 7.3	1.8	0.1	0.1
	7.8	2.2 4.4	0.8	0.7	0.7
	36.9	1.5 5.1	1.0	2.8	2.9
	0.08	3.1 8.6	4.8	0.01	0.02
	0.78	1.4 5.4	1.3	0.09	0.10
	3.83	0.9 2.1	0.6	0.20	0.20

A. 2

		mg/L	mg/L	%	%	mg/L ^r	mg/L ^R
		7.9	7.4	2.2 11	3.6	1.1	1.3
		39.5	37.7	1.4 5.1	0.9	3.1	3.2
		7.9	7.5	1.3 3.0	3.1	0.5	0.8
		39.5	38.1	1.5 3.0	2.1	2.4	3.2
		7.9	—	0.7 3.8	—	—	—
		39.5	—	0.5 2.1	—	—	—
		0.79	0.74	1.4 5.9	3.1	0.08	0.10
		3.94	3.71	1.8 9.7	2.3	0.54	0.55
		0.79	0.75	1.5 3.7	2.4	0.06	0.07
		3.94	3.83	1.6 5.2	1.7	0.41	0.42
		0.79	—	0.4 12	—	—	—
		3.94	—	0.3 2.0	—	—	—

A. 3

		μg/L	%	$\bar{p} \quad 2S_p^-(\%)$
		7.9	87.3 97.1	93.7± 6.8
		39.5	94.1 96.3	95.4± 1.6
		7.9	77.2 110	94.2± 24.4
		39.5	81.2 102	94.7± 14.8
		7.9	92.3 101	94.7± 6.0
		39.5	94.5 100	96.4± 4.0
		0.79	89.7 98.5	93.6± 5.8
		3.94	90.4 97.0	94.3± 4.4
		0.79	85.0 101	92.8± 12.4
		3.94	88.1 98.4	92.7± 8.2
		0.79	93.1 99.0	94.6± 4.4
		3.94	95.7 100	97.1± 3.2

