



GB 1886 222—2016

2016-08-31

2017-01-01

1

4 -5 -2

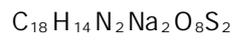
6 -2

2

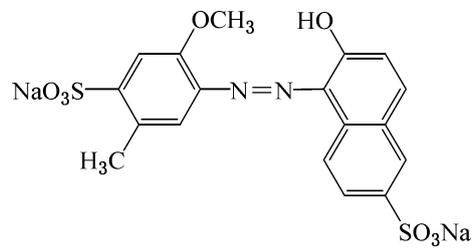
2.1

6 -5 [(2 -5 -4)]-2

2.2



2.3



2.4

496.42 (2013)

3

3.1

1

1

3 2

2

2

	, w/ %	85.0	A A 4
	(NaCl) (Na ₂ SO ₄) , w/ %	15.0	A A 5
	, w/ %	0.20	A A 6
	, w/ %	3.0	A A 7
6	-2- , w/ %	0.3	A A 8
4	-5- -2- , w/ %	0.2	A A 9
6.6-	(2-) , w/ %	1.0	A A 10

A

A.1

A.2

GB/T 6682

GB/T 601 GB/T 602

GB/T 603

A.3

A.3.1

:1.5 g/L

A.3.2

A.3.2.1

A.3.2.2 :10 mm

A.3.3

A.3.3.1

0.1 g (0.01 g), 100 mL ,

A.3.3.2

0.1 g (0.01 g), 100 mL , 1 mL ,
100 mL , 497 nm~501 nm
: 0.3~0.7 ,

A.4

A.4.1 ()

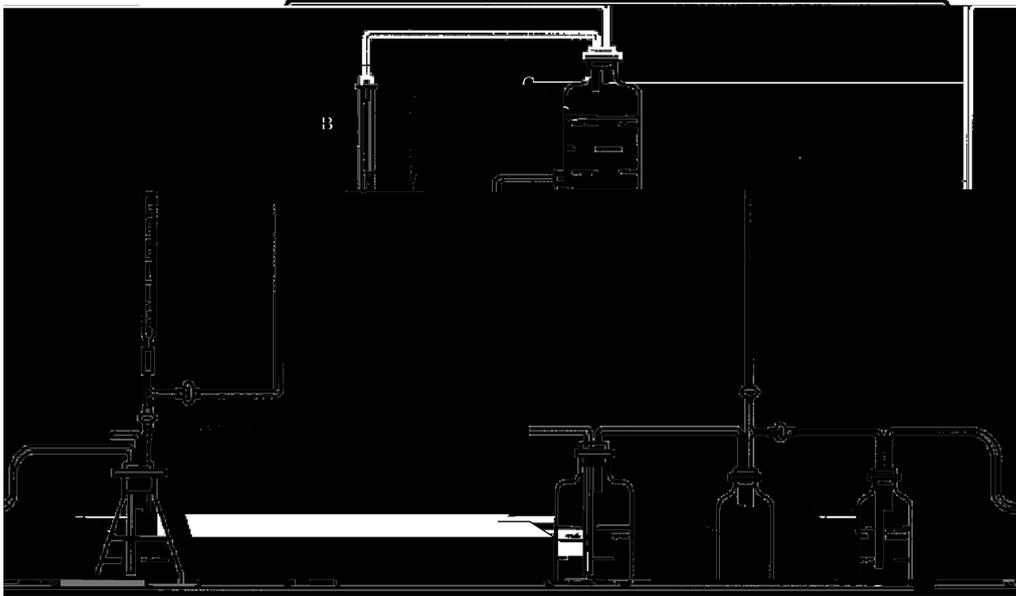
A.4.1.1

A.4.1.2

A.4.1.2.1

V
 A.4.1.2.2 :c (TiCl₃) = 0.1 mg/L (, B)
 A.4.1.2.3 : 99%
 A.4.1.3

A.1



- :
 A — (500 mL);
 B — (50 mL);
 C — (2 000 mL);
 D — (5 000 mL);
 E — ;
 F — ;
 G —

A.1

5 g (0.000 1 g), 500 mL , 50 mL
 g 150 mL , , A.1 ,

w_1 (A.1) :
 $w_1 = \frac{V}{V}$

m —— ; (g);
 1 000 —— ;
 4 —— (1)
 1.0%

A.4.2

A.4.2.1

A.4.2.2

A.4.2.2.1 : 1.5 g/L
 A.4.2.2.2 : 85.0% (A.4.1)

A.4.2.3

A.4.2.3.1

A.4.2.3.2 : 10 mm

A.4.2.4

0.5 g (0.000 1 g), , 1 000 mL ,
 , 10 mL , 500 mL , , (0.3~0.7)

A.4.2.5

A.4.2.4

A.4.2.6

10 mm ,

A.4.2.7

w_1 , (A.2) :

$$w_1 = \frac{A_1 \times m_0}{A_0 \times m_1} \times w_0 \times 100\% \dots\dots\dots (A.2)$$

;
 A_1 —— ;
 m_0 —— , (g);
 A_0 —— ;
 m_1 —— , (g);
 w_0 —— (A.4.1), %
 (1)
 1.0%

(

A5 (NaCl) (Na₂SO₄)

A5.1

A5.1.1

A5.1.2

A5.1.3

2 g (0.0001 g), 135 ± 2 30 mm~ 40 mm
, 135 ± 2

A5.1.4

w₂, (A 3) :

$$w_2 = \frac{m_2 - m_3}{m_4} \times 100\% \dots\dots\dots (A 3)$$

:
m₂ —
m (g);

)

5 g, 1 h, ()
10 mL 3, 200 mL

A5.2.4

50 mL, 500 mL, 2 mL 10 mL ()
5 mL, 1 mL
1 min

A5.2.5

(NaCl)

w_3 , (A.4) :

$$w_3 = \frac{(V_1 - V_0) \times c_1 \times M_1}{m_5 \times 1000 \times \frac{50}{200}} \times 100\% \dots\dots\dots (A.4)$$

- V_1 — (mL);
 - V_0 — (mL);
 - c_1 — (mol/L);
 - M_1 — (g/mol) [$M(\text{NaCl}) = 58.4$];
 - m_5 — (g);
 - 1 000 — ;
 - 50 — (mL);
 - 200 — (mL)
- (1)
0.3%

A5.3 (Na_2SO_4)

A5.3.1

A5.3.2

A5.3.2.1 :0.2 g/L

A5.3.2.2 :1 + 1999

A5.3.2.3 : $c\left(\frac{1}{2}\text{BaCl}_2\right) = 0.1 \text{ mol/L}$ () ()

A5.3.2.4 :10 g/L

A5.3.2.5 : 0.1 g, 10 mL ()

A5.3.3

25 mL (A.5.2.3), 250 mL, 1

A5.3.4

(Na_2SO_4) w_4 , (A.5) :

$$w_4 = \frac{(V_3 - V_2) \times c_2 \times M_2}{m_6 \times 1\,000 \times 2 \times \frac{25}{200}} \times 100\% \dots\dots\dots (A.5)$$

- V_3 ——— , (mL);
- V_2 ——— , (mL);
- c_2 ——— , (mg/L);
- M_2 ——— , (g/mol) [$M(\text{Na}_2\text{SO}_4) = 142$];
- m_6 ——— , (g);
- 1 000 ——— ;
- 2 ——— ;
- 25 ——— , (mL);
- 200 ——— , (mL)

0.2%

A5.4 (NaCl) (Na_2SO_4)

(NaCl) (Na_2SO_4) w_5 , (A.6) :

$$w_5 = w_2 + w_3 + w_4 \dots\dots\dots (A.6)$$

- w_2 ——— , %;
- w_3 ——— (NaCl) , %;
- w_4 ——— (Na_2SO_4) , %

A6

A6.1.1

A6.2

A6.2.1 (G₄): 5 μm ~ 15 μm

A6.2.2

A6.3

3 g (0.001 g), 500 mL , 50 ~ 60 250 mL ,
135 ± 2 (G₄) , 135 ±

A.6.4

w_6 , (A.7) :

$$w_6 = \frac{m_7 - m_8}{m_9} \times 100\% \dots\dots\dots (A.7)$$

m_7 — (g);
 m_8 — (g);
 m_9 — (g)
 (1)
 0.2%

A.7

A.7.1

A.7.2

A.7.2.1 2-

A.7.2.2

A.7.2.3 :1 + 1

A.7.2.4 :4 g/L

A.7.3

A.7.3.1

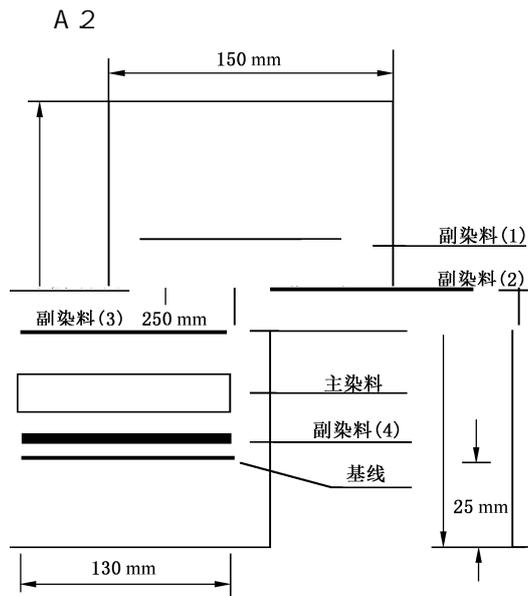
A.7.3.2 :1 ,150 mm×250 mm

A.7.3.3 : 240 mm×300 mm

A.7.3.4 :100

A.7.4.3

100 μ L, 25 mm
 5 mm, 130 mm,
 10 mm, 150 mm



A.2

5 mm \times 15 mm, 50 mL, 5 mL, 3 min ~
 5 min, 20 mL, (G₃)
 50 mm, 5 mL

A.7.4.6

w_7 , (A.8) :

$$w_7 = \frac{(A_n - b_n)}{5} \times w_1 \times 100\% \dots\dots\dots (A.8)$$

$$(A_s - b_s) \times \frac{100}{2}$$

- :
 - A_n — 50 mm ;
 - b_n — 50 mm ;
 - 5 — 10 mm ;
 - A_s — 10 mm ;
 - b_s — 10 mm ;
 - $\frac{100}{2}$ — 1% ;
 - w_1 — , %
- 1
(1)
0.2%

A.8.6-2-

A.8.1

, 6-2-

A.8.2

A.8.2.1

A.8.2.2 : 7.8 g/L

A.8.2.3 6-2-

A.8.3

A.8.3.1 : - 0.1 mL/min ~ 5.0 mL/min ,

± 1% ; -

A8.4.3 :A: :B:
:50 min A B = 100 0 () A B = 0 100 ()

A8.4.4 :1 mL/min

A8.4.5 :20 μL

A8.5

0.01 g (0.000 1 g), , 100 mL

A8.6

0.01 g(0.000 1 g) 24 h 6- -2-
100 mL 10.0 mL 5.0 mL 2.0 mL 1.0 mL ,
100 mL

A8.7

A 8.4 , , 6- -2-
6- -2- , 6-
-2- D

A9 4- 5- 2-

A9.1

, , 4 -5- -2-

A9.2

A9.2.1 4 -5- -2-

A9.2.2 A 8.2

A9.3

A 8.3

A9.4

A 8.4

A9.5

A 8.5

A9.6

0.01 g(0.000 1 g) 24 h 4 -5- -2-
100 mL 10.0 mL 5.0 mL 2.0 mL 1.0 mL
100 mL

A.9.7

A.9.4

2- 4 -5 -2- 4 -5 - D

A.10 6.6'- (2-)

A.10.1

6.6- (2-)

A.10.2

A.10.2.1 6.6- (2-)

A.10.2.2 A.8.2

A.10.3

A.8.3

A.10.4

A.8.4

A.10.5

A.8.5

A.10.6

0.01 g (0.0001 g) 24 h 6.6- (2-)
100 mL 100 mL 5.0 mL 2.0 mL 1.0 mL
100 mL

A.10.7

A.10.4

) 6.6- (2-) 6.6- (2-) 6.6- (2-)
D

A.11 ()

A.11.1

A.11.2

A.11.2.1

A.11.2.2 :1 + 10

A.11.2.3 :1 + 3

A.11.2.4 :500 g/L

A.11.2.5 :200 g/L

A.11.2.6 :40 g/L

A.11.2.7 :4 g/L

A.11.2.8 R :20 g/L

A.11.2.9 :3.52 g/L

A.11.2.10 : 0.500 0 g , 500 mL , 150 mL
 (1 + 3) 3 , 500 mL , 25 mL 250 mL
 , 0.100 0 g/L

A.11.3

A.11.3.1

A.11.3.2 :40 mm

A.11.4

2 g (0.001 g) 150 mL , 100 mL 5 mL (40 g/L),
 , 50 mL
 10 mL (1 + 3) 10 mL (4 g/L) ,
 3 100 mL ,

A.11.5

2.0 mL 100 mL , (1 + 10) , ,

A.11.6

10 mL , 10 min
 1 mL 0.5 mL , 10 min ,
 25 mL 1 mL R 10 mL
 R ,
 15 min
 , 10 mL ,

A.11.7

10 mL (1 + 10) 10 mL 1 mL R 25 mL ,

A.11.8

, 510 nm

B

B.1

B.1.1

C

C.1

C.1.1

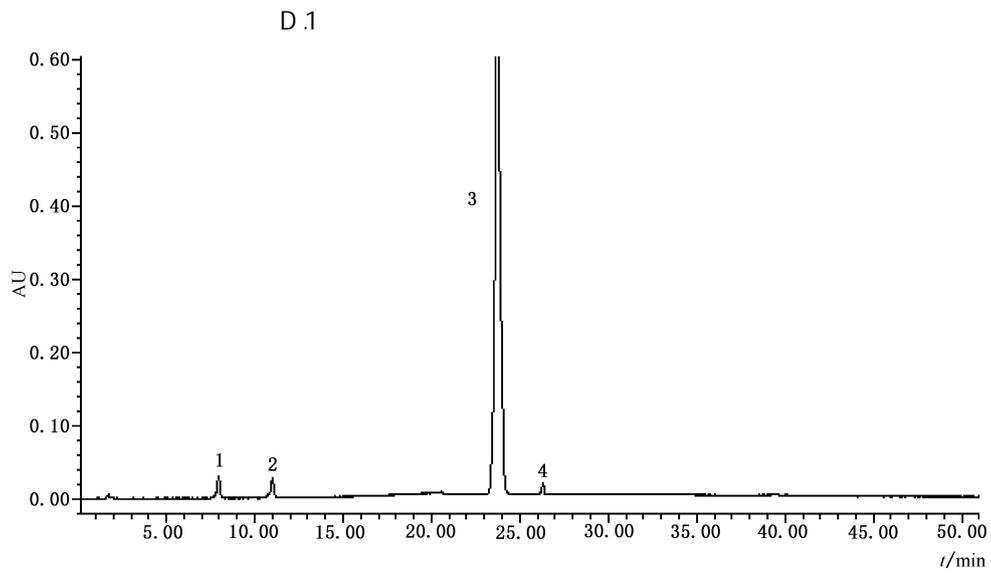
C.1.2

C.1.3 $c\left(\frac{1}{2}\text{H}_2\text{SO}_4\right) = 0.1 \text{ mol/L}$

C.1.4 (0

D

D.1



1—4 -5 -2 ;
 2—6 -2 ;
 3— ;
 4—6.6- (2)

D.1

D.2

D.1

D.1

		/ min
1	4 -5 -2	10.87
2	6 -2	14.21
3		18.03
4	6.6- (2)	18.70