

III

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2

Ә Ю GB/T14848-2017 ґ III

$$P_i = \frac{C_i}{S_i}$$

Pi— i

Ci— i

Si— i III

pH

$$P_{pH} = \frac{7.0 - pH}{7.0 - pH_{sd}} \quad pH \leq 7$$

$$P_{pH} = \frac{pH - 7.0}{pH_{su} - 7.0} \quad pH > 7$$

P_{pH} — pH

pH — pH

pH_{su} — pH

pH_{sd} — pH III

1 III

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Ә Ю GB/T14848-2017 ґ III

3-15 III

3-15													
mg/L													
		1#			2#			3#			4#		
pH		7.13	0.685	-	6.98	0.76	-	7.01	0.745	-	7.85	0.325	-
	mg/L	222			78.3			92.8			112		
	mg/L	15.4			6.51			1.41			1.80		
	mg/L	46.6			17.2			31.4			27.1		
	mg/L	53.8			11.6			25.8			30.6		
	mg/L	56.5	22.6		9.10	3.64		0.197	0.079		0.239	0.096	
	mg/L	0			0			0			0		
	mg/L	648			261			442			482		
	mg/L	0.309	0.001	-	44.7	0.179	-	0.489	0.002	-	0.350	0.001	-
	mg/L	0.921	1.842	0.842	0.375	0.75		1.578	3.156	2.156	1.906	3.81	2.81
	mg/L	0.028	0.001	-	32.2	1.61	0.61	0.046	0.002	-	ND	0	-
	mg/L	ND	0		0.018	0.018		ND	0	-	ND	0	-
	mg/L	0.0048	2.4	1.4	0.0039	1.95	0.95	0.0028	1.4	0.4	ND	0	-
	μg/L	0.05	0.05	-	0.06	0.06	-	ND	0	-	0.04	0.04	-
	μg/L	6.9	0.69	-	3	0.3	-	6.1	0.61	-	3.9	0.39	-
	mg/L	ND	0	-	ND	0	-	ND	0	-	ND	0	-
	mg/L	ND	0	-	ND	0	-	ND	0	-	0.008	0.16	-
	mg/L	152	0.338	-	126	0.28	-	121	0.269	-	425	0.94	-
	mg/L	0.067	0.067	-	0.135	0.135	-	0.227	0.227	-	0.250	0.00	-
	μg/L	ND	0	-	ND	0	-	ND	0	-	ND	0	-
	μg/L	ND	0	-	ND	0	-	ND	0	-	ND	0	-
	mg/L	0.27	2.7	1.7	0.05	0.5	-	0.49	4.9	3.9	0.35	3.5	-
	mg/L	ND	0	-	ND	0	-	ND	0	-	ND	0	-

	mg/L	446	0.446	-	824	0.824	-	468	0.468	-	516	0.52	-
	mg/L	3.3	/	/	1.6	/	-	3.7	/	/	2.4	/	-
	/L	790	263.3	262.3	16000	5333	5332	<20	6.667	5.667	<3.0	0	-

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Ю GB/T14848-2017

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III

4 19 ч

ч ч ч η

Э Ю GB/T14848-2017 η III

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ч ч ч III

3 1#ч2#ч3# ч

0.875~6.89ч0.4~1.4 5.667~5332 2# 1.61 1# 3#

1.7~3.9 0.1~0.233III

ч ч

ч ч ч

III

2013 3 3 pHч

ч ч ч ч ч ч ч ч ч

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pH ч ч ч ч ч ч ч ч ч III

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2017 7 28 III 3-16III

3-16

pH	2 pH NY/T 1121.2-2006	PXSJ-216 JR/ZW-SYYQ022	0.1
	ч	PinAAcle 900T	0.01mg/kg

	GB/T 17141-1997	JR/ZW-SYYQ002	0.1mg/kg
	HJ 491-2009	PinAAcle 900T JR/ZW-SYYQ002	5mg/kg
	ч	PinAAcle 900T JR/ZW-SYYQ002	1 mg/kg
	GB/T 17138-1997		0.5 mg/kg
	GB/T 17139-1997	PinAAcle 900T JR/ZW-SYYQ002	5mg/kg
	ч ч ч / HJ	AFS-230E JR/ZW-SYYQ023	0.01mg/kg
	680-2013		0.002 mg/kg
	Э - Ю HJ 77.4-2008	Thermo DFS	ч

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Ю GB 36600-2018

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GB15618-2018 Ю

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3-17

mg/kg

	2017 7 28					
	1#		2#		3#	
pH	6.4				6.39	
(mg/kg)	31.3	50	24.2	18000	29.0	50
(mg/kg)	16.2	90	12.1	800	9.5	90
(mg/kg)	0.223	0.3	0.184	65	0.286	0.3

Э		-			Ю
HJ 77.4-2008					
Ž					
3-18		mg/kg			
	100	1000	1000		
ngTEQ/kg	0.11	0.16	0.26	40ng/kg	
Э		Ю			

GB 36600-2018

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3.2.8

	2 24
2 E2	1 ҫ ҫ 10
	2 ҫ ҫ 10
3 E3	3 1 2 ҫ ҫ

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E3III

3.3

3.3.1

	ҫ	ҫ	ҫ	ҫ	ҫ		ҫ	ҫ
ҫ	ҫ	ҫ	ҫ	ҫ SCR				
		£	£					ҫ
ҫ	ҫ	ҫ	ҫ		III			
3-21III								

3-21

				t			
1		20m³	0#	16.8			
2	25%	30m³	25%	27.6 5.52t			

3.3.2 Q

Ә	Ю HJ941-2018	
1		QIII
2	1	
$Q = \frac{W_1}{W_1} + \frac{W_2}{W_2} \dots\dots\dots \frac{W_n}{W_n}$		
		1

$w_1 \text{ и } w_2 \dots w_n$

t

$W_1 \text{ и } W_2 \dots W_n$

tIII

Q

4

1

Q

1

Q0

2

$1 \leq Q \leq 10$

Q1

3

$10 \leq Q \leq 100$

Q2

4

$Q \geq 100$

Q3

III

3.3.2.1

Q

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Ю HJ941-2018

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Ю GB18218-2018

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Ю GB12268-2012

3-22III

3-22

		Э Ю GB12268-2012					*	Q
1		3	--	II		16.8	2500	0.007
2	25%	3	--	II		5.52	10	0.552
					/			0.559

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Ю HJ 941-2018 III

3-14

Q

0.559

Q0

III

3.3.2.2

Q

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Ю HJ941-2018

A Ч Э

Ю GB18218-2018

Э

Ю GB12268-2012

3-23III

3-23

		Э Ю GB12268-2012					*	Q
1		3	--	II		16.8	2500	0.007
2	25%	3	--	II		5.52	10	0.552
					/			0.559

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Ю HJ 941-2018 III

3-21

Q

0.559

Q0

III

3.4

3.4.1

3-24III
 3-24

			kW		
	ч				
1		50t		1	
2		6000mm×3800mm		4	
			0.375	4	
3		12.5t		2	
		8m ³	110	2	1
4		Q=25m ³ /h H=30m	4	2	1
5		12.5t 32m	4.5	2	1
6				1	
1		Q=3.6m ³ /h P=3.0MPa	5.5	2	1
2		20m ³		1	
	/				
1		500t/d 8950kJ/kg / 260 /150		1	
2			37	1	1
3				3	
		Q=6335 Nm ³ /h P=4407Pa	11	3	
5			15	2	
7		Q=95000Nm ³ /h P=7500Pa	280	1	
8		Q=25000Nm ³ /h P=7000Pa	75	1	
9		450 4.0Mpa 60t/h 130		1	
10		V=3.5m ³		1	
11		V=1.5m ³		1	
12		Q=12m ³ /h H=15m	1.5	1	
1		Q=70m ³ /h H=640m	280	2	1
2		N9-3.82/435 30t/h		1	
3		QF2W-9-2Z		1	
		650kW		1	
		30m ²		2	1

			kW		
4		V=20m ³		1	
5		Q=30m ³ /h H=80m	18.5	2	1
6		Q=50m ³ /h H=130m	37	2	1
7	/	Q=105m ³ /h H=47m		2	1
8		Q=50m ³ /h P=1.0MPa	37	1	
9		Q=20.5m ³ /h P=0.4MPa	5.5	1	
10		Q=20.5m ³ /h P=0.4MPa	5.5	1	
11		65t/h		1	
12		75t/h		1	
13		V=40m ³		1	
14		20m ² 25t/h		1	
15		40m ²		1	
16		20t 5t 16m 18m		1	
17		3t 3m		1	
1		52000-54675Nm ³ /h		1	
2		52000-54675Nm ³ /h		1	
3		Q=16000m ³ /h P=2kPa	22	1	
4		380V 50Hz	130	1	
5		Q=800m ³ /h P=2kPa	2.2	1	
6		380V 50Hz	5	6	
7		380V 50Hz	3	6	
8		2t 10m	0.8	2	
9		V=200m ³		1	
10			3	1	
11		V=10m ³		1	
12			3	3	1
13				3	
14			3	1	
15		Q=60m ³ /min P=58800Pa	3	2	1
16		Q=12m ³ /h H=80m	5.5	1	
17		Q=12m ³ /h H=60m	5.5	1	
18		Q=250000Nm ³ /h P=6500Pa	450	1	
19		1.3m 80m		1	
20		Q=20m ³ /h H=23m	2	1	
21		V=30m ³		1	
1		5t/h		2	

			kW		
2		1t/h	4.4	4	
3		5t 8m	11	1	
4		1t/h	4.2	1	
5		1t/h	4.2	2	
6		1t/h	4	1	
7		1t/h	5	2	
8			22.16	1	
9			22.16	1	
10		Q=4t/h	5.5	2	
11		V=200m ³		1	
12		V=100t		1	
13		V=3m ³		1	
14		380V 50Hz	2.2	1	
15		Q=12.3m ³ /h	1.5	1	
16		V=2m ³		1	
17		380V 50Hz	2.2	1	
18		Q=12.3m ³ /h	1.5	1	
19		10t/h	45	1	
20		10t/h	7.5	1	
	1×15t/h				
1		Q=2020m ³ /h P=0.22MPa	185	2	1
2		Q=200m ³ /h H=50m	45	2	1
3		Q=25m ³ /h H=32m	4	2	1
4		2×2500m ³ /h	55/110	2	
5		Q=12m ³ /h H=10m	1.1	2	
1		QWP30-35-7.5	7.5	2	1
2		G35-50-2P	3.7	2	1
3	UASB	G35-50-2P	5.5	2	1
4		G37-80-2P	5.5	1	
5		G325-250-4P	18.5	1	
6		QJB1.5/6-260	1.5	2	1
7		CRN1-3	0.37	2	1
8		G310-150-4P	7.5	1	
9	UF	G310-100-2P	7.5	2	1
10	UF	CHD545-200B	45	2	1
11	UF	G310-100-2P	7.5	1	
12	NF	CRN15-1	1.1	2	1

			kW		
13	NF	100UHB-ZK-60-40	18.5	2	1
14	NF	PS25PP-AT-T/S-PP	3	1	
15	RO	CRN3-7	0.55	2	1
16	RO	2530	11	2	1
17	RO	PS25PP-AT-T/S-PP	3	1	
18		CP53.7-50	3.7	2	1
19			2.2	1	
20		PS25PP-AT-T/S-PP	2.2	2	1
21		DWL360	22	1	
22		LS-230	1.5	1	
23		FRP4.2A-2P	3.0	2	1
24		NM038BY01L06B	2.2	2	1
25		FB-3	2.2	1	
26		NM045BY01L06B	4	1	
27		PS25PP-AT-T/S-PP	1.5	1	
28		Q=23m ³ /h M=20m	25	1	
29		Q=23m ³ /h M=20m	5.5	1	
30		DWL360	22	1	
31		NM045BY01L06B	4	1	
32		SP52.2-80	2.2	1	
33		SP52.2-80	2.2	1	
1		Q=216m ³ /h P=0.7MPa	75	1	
2		Q=216m ³ /h P=0.76MPa	75	2	
3		Q=18m ³ /h P=0.35MPa		2	
4		Φ1000,V=1.36m ³ ,P=1.60MPa		1	
1		43.2m ³ /min 0.8MPa	250	3	1
2		43.5m ³ /min	6.54	3	1
3		32m ³ /min	12	2	1
1		SCB11-2500/10.5		1	1
2				0	
			/	ψ	ψ

3-24

III

3-24

ψ				

1		SLC 500-4/450		1
			t/d	500
			t/d	550
			h	8000
			h	1.5-2.5
			s	≥2
				950
			%	≤3
2		10t/h		2
3				2
4				3
5				1
6		=69300Nm ³ /h P=4500Pa		
7		29700m ³ /h P=10500Pa		
9		Q=13900 Nm3/h P=3000Pa		
ψ				
1				1
				450
5 9ñ ù CĐ p450Pa450 5 9ñ ù CĐ p				

1		121000 Nm ³ /h		1
2				1
3		Q=10m ³ /h H=80m		1
4		Q=250m ³ /h P=22500Pa		1
5		Q=3m ³ /min P=20000Pa		1
6		113000 Nm ³ /h		1
8		Q=125800 Nm ³ /h P=4500 Pa		1
9		1.8m 80m		1
ч				
1		10t/h		2
2		8t 3m ³		1
3		1.5t/h		2
4		1.0t/h		2
5		1.0t/h		2
6		1.2t/h		1
7		1.2t/h		2
1		Q=2020m ³ /h H=0.22MPa		1

3.4.2

(
)
5138kJ/kgIII
3-5

15
5800kJ/kg

4200
7500kJ/kg
III

ч
ч
ч

III

III

7mIII
6
III

III
-6mIII

III

III
III

ч
850

III

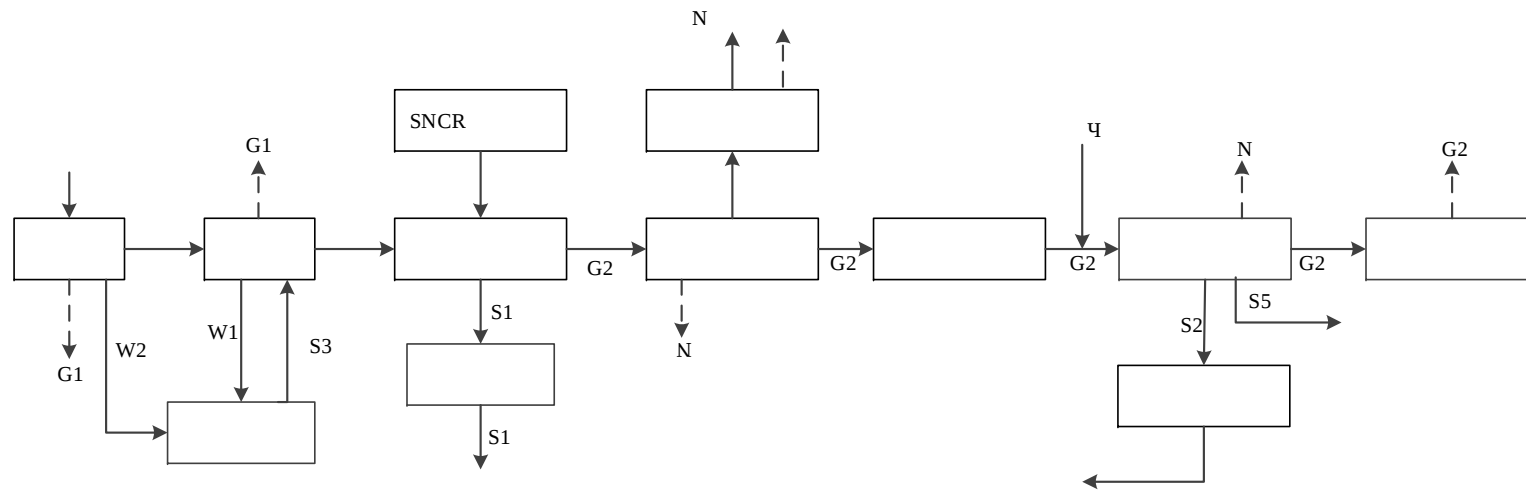
III

ч

III

III

		195		III	
		+		+	+
III		(	190-220	)	
			155-160		
			III	(	)
		(CaCl ₂) Ч	(CaSO ₄)		
			III		
			80m	III	
	4.0MPa	450	III		III
		III			
3-2III					



3-2

3.4.3

1

3-25III

3-25

			$\hat{y}$			
			$\ddot{Y}$	850		
			$\dot{Z}$	2s		
				300	500	
			$\dot{z}$			
				III		
			SNCR			
			+			
		CO	$\hat{y}$			
		$\ddot{Y}$				
		20m	1			
		Ψ SO ₂ Ψ HCl Ψ HF Ψ NO _x Ψ NH ₃ Ψ O ₂ Ψ CO Ψ CO ₂				
		III				
			III			
		1	Ψ			
		2				
		3	Ψ			
		4				
			1.5h/	III		
			III	-10Pa DCS		
		5				
		6	Ψ			
					III	
			Ψ	Ψ	200t/d	
	Ψ	A/O+	“	+	+UASB	
			+	+DTRO”	+MBR	
				III	Ψ	

3.5

3.5.1

3-27

3-27

	1 A		
	2	ч	0
	ч ч ч ч ч	--	
			25
			0
		--	--
		--	--
		--	--
		--	--
			0
		--	25

3-28

M	
M 25	M1
25≤M 45	M2
45≤M 60	M3
M≥60	M4
Э	Ю HJ941-2018
	ч

M III

M

30

M2III

3.5.2

3-29

3-29									
1		ყ	ყ	ყ					
2						III		SNCR	
ყ	ყ				55m ³				--
3						III			
		ყ							

	1 2 ŷ ÿ ž ž ч ч		0
	2	--	--
			0
	1 2 3	--	--
	1 2 3 4 ч ч ч	--	--
	1 2 ч ч ч	--	0
	ч ч ч		0
3		--	--
		--	--
		--	--
			0
		--	
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М III

М 29

3.5.1 3-28

M2III

3.6

3.6.1

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III

3-30

3-30

		100		
		6		
		14		
		100		
		100		
		200		
		1000m		
		100		
		100		
		600m		
		100		
		1 /		
		2		
		10		
		20		

3.6.2

III

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 қ қ 3-31III

3-31

		18515181362	
		17562253555	
		15324358736	
		15810874511	
		13476037576	
		15893558007	
		18071971691	
		18316787053	
		13872031391	
		18608627269	
		13762714330	
		13687122033	
		15172523866	
		15972609594	
		15027277683	
		15271850878	қ қ қ

		17371731144	ч ч
		18608663563	
		18672855156	
		13469701000	
		18727365188	
		13638696367	
ч ч			

III

3-32III

3-32

1			0728-3222894	
2			0728-3222810	ч ч
			110	ч
3			119	ч ч
4			0728-3322856	ч ч ч ч ч
			0728-3222518	
			0728-3224695	
			027-87861455	
			027-87001166	
5			120/112/0728-3223 533	
6	ч ч ч		0728-3491063	ч ч ч
7			0728-3318933	ч
			12369	
8			13707224477	
			17719568051	
			15826880999	

4

2013 12 5 III

12 5 III

5 III

III

2 5 III

5 III

5-15% III

III

5) Ч

8) III

2014 7 7 17 20

7 7 17 20

17 20

Ч2 III

1

ч ч ч

III

2

$\hat{y}$

$\ddot{Y}$

ч

III

1

ч

2

3

4

III

4.1.2

ч ч

III

4-1

4-1

1		III

2		ч
3		III
4		III SO ₂
5		ч III
6		ч ч ч III
7		III
8		ч ч III
9		III

4.2

ч

() III

III

III

ч ч ч ч III III

ч III

4.2.1

III

0#

III ч ч ч

ч III

III

ч 0# Э

4-4					
				kg/h	
	21	50	10		0.056
					0.932

4.2.4

1.

III
0.5 1 / / III

SO₂ III SO₂ 50% 206.6mg/Nm³III

2.

III

ч

III

III

ч

ч

III

4-5III

4-5		
%	50	50
(mg/Nm ³)	5500	2.25ngTEQ/m ³

4.2.5

ч ч ч

III

0.5 1 / III

4.2.6

III

10⁻⁵ /aIII

1

Q

$$Q = C_d A \rho \sqrt{\frac{2(P - P_0)}{\rho} + 2gh}$$

Q — kg/s

C_d — 0.6-0.64III

A — m²

P — Pa

P₀ — Pa

g —

h — mIII

100% 40mm

1mIII 0.03kg/sIII 10min

0.018tIII

2

ч

III

$\hat{y}$

$$Q_1 = F \cdot WT / t_1$$

Q₁ — kg/S

WT — kg

t₁ — s

F —

2

III

Q2

$$Q_2 = \frac{\lambda \times S \times (T_0 - T_b)}{H \times \sqrt{\pi \times \alpha \times t}}$$

Q₂—— kg/s

T₀—— k

T_b—— k

S —— m²

H—— J/kg

λ —— W/m•k

α —— m²/s

t—— sIII

3

III

Q₃

$$Q_3 = a \times p \times M / (R \times T_0) \times u^{(2-n)/(2+n)} \times r^{(4+n)/(2+n)}$$

Q₃—— kg/s

a,n——

p—— Pa 20 25% 1.59kPa

R—— J/mol•k

T₀—— k

u—— m/s 1.7

r—— m 5mIII

¶ III

III

4

$$W_p = Q_1 \times t_1 + Q_2 \times t_2 + Q_3 \times t_3$$

W_p —	kg				
Q_1 —	kg				
Q_2 —	kg/s				
t_1 —	s				
t_2 —	s				
Q_3 —	kg/s				
t_3 —		sIII			
				III	

4-6III

4-6

	D
	=1.7m/s
kg/s	0.0016

4.2.7

ч

ч

ч

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III

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Ю GB18597-2001

2013

III

4.3

4.3.1

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		Э	Ю(GB50483-2009)	
[2006]43 Э		т	Л	Ю
V =(V1+V2 V3)+V4+V5				
V1—			(	)
V2—				
V3—				
V4—				
V5—		III		
V1			40m ³	
20m ³		0m ³		
V1	50m ³ III			
V2				
III Э		Ю GB50016-2014	25L/s	2h
V2=0.025 × 2 × 3600=180m ³ III				
V3=0				
V4=0				
V5=10 × q × F				
q—— mm				
q=qa/n		qa—— mm	1252.7mm	
n——		108.3 III		
F——			ha	Ч
1.45 III				
V5=167.7m ³ III				
V =50+180-55+167.7=342.7 m ³				
342.7m ³			1	
540m ³				

3					
4-7III					
4-7					
	1				
	2				
	ч III				
	ч ч				
	1				
	2 III ч III III III III III III III				
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	ч ч ч III				
	ч ч ч ч ч				

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1.7m/s

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Ю HJ/T169-2004

Ю 2008

4pg TEQ/kg

		10%	0.4pg TEQ/kgIII				
		60kg	100%				
100%	III						
					24pgIII		
ž							
		ч				ч	
		IIID	2.7m/s				4-8
		340m	340m				
		ч	1	0.33	0.12	5	
pgTEQ/m ³	III						

	1min	2min	3min	4min	5min	6min	7min	8min	9min	10min	12min	14min	16min	18min	20min	25min
300	0	0	1.54	5.69	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	4.3	0	0
310	0	0	1.03	5.27	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	4.53	0	0
320	0	0	0.68	4.79	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.62	0	0
330	0	0	0.43	4.26	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	4.63	0	0
340	0	0	0.27	3.7	4.83	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.56	0.01	0
350	0	0	0.17	3.12	4.61	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.46	0.02	0
360	0	0	0.1	2.56	4.4	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.33	0.04	0
370	0	0	0.06	2.05	4.17	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.19	0.08	0
380	0	0	0.04	1.6	3.93	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.04	0.15	0
390	0	0	0.02	1.22	3.68	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.9	0.24	0
400	0	0	0.01	0.91	3.39	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.76	0.38	0
410	0	0	0.01	0.67	3.08	3.62	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.62	0.54	0
420	0	0	0.01	0.48	2.76	3.48	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	0.74	0
430	0	0	0	0.34	2.42	3.34	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	0.95	0
440	0	0	0	0.24	2.09	3.2	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	1.16	0
450	0	0	0	0.17	1.77	3.05	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	1.37	0
460	0	0	0	0.12	1.48	2.9	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	1.55	0
470	0	0	0	0.08	1.21	2.73	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	1.72	0
480	0	0	0	0.05	0.97	2.54	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	1.86	0
490	0	0	0	0.04	0.77	2.35	2.73	2.74	2.74	2.74	2.74	2.74	2.74	2.74	1.97	0
500	0	0	0	0.02	0.61	2.14	2.64	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.05	0

4-9 D 2.7m/s pg TEQ/m3																	
	1min	2min	3min	4min	5min	6min	7min	8min	9min	10min	12min	14min	16min	18min	20min	25min	25
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0.0114	0.0114	0.0114	0.0114	0.0114	0.0114	0.0114	0.0114	0.0114	0.0114	0.0228	0.0228	0	0	0	0	0.1482
20	0.3548	0.3548	0.3548	0.3548	0.3548	0.3548	0.3548	0.3548	0.3548	0.3548	0.7096	0.7096	0	0	0	0	4.6124
30	0.9706	0.9706	0.9706	0.9706	0.9706	0.9706	0.9706	0.9706	0.9706	0.9706	1.9412	1.9412	0	0	0	0	12.6178
40	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	0.5252	1.0504	1.0504	0	0	0	0	6.8276
50	0.4791	0.4791	0.4791	0.4791	0.4791	0.4791	0.4791	0.4791	0.4791	0.4791	0.9582	0.9582	0	0	0	0	6.2283
60	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.4244	0.8488	0.8488	0	0	0	0	5.5172
70	0.365	0.3651	0.3651	0.3651	0.3651	0.3651	0.3651	0.3651	0.3651	0.3651	0.7302	0.7302	0.0002	0	0	0	4.7465
80	0.3108	0.3202	0.3202	0.3202	0.3202	0.3202	0.3202	0.3202	0.3202	0.3202	0.6404	0.6404	0.0188	0	0	0	4.1814
90	0.2166	0.2829	0.2829	0.2829	0.2829	0.2829	0.2829	0.2829	0.2829	0.2829	0.5658	0.5658	0.1326	0	0	0	3.8103
100	0.1063	0.2518	0.2518	0.2518	0.2518	0.2518	0.2518	0.2518	0.2518	0.2518	0.5036	0.5036	0.2912	0	0	0	3.5646
110	0.0391	0.2257	0.2257	0.2257	0.2257	0.2257	0.2257	0.2257	0.2257	0.2257	0.4514	0.4514	0.3732	0	0	0	3.3073
120	0.0121	0.2036	0.2036	0.2036	0.2036	0.2036	0.2036	0.2036	0.2036	0.2036	0.4072	0.4072	0.3828	0	0	0	3.0296
130	0.0035	0.1846	0.1846	0.1846	0.1846	0.1846	0.1846	0.1846	0.1846	0.1846	0.3692	0.3692	0.3622	0	0	0	2.762
140	0.001	0.1679	0.1682	0.1682	0.1682	0.1682	0.1682	0.1682	0.1682	0.1682	0.3364	0.3364	0.3346	0	0	0	2.5209
150	0.0003	0.1513	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.308	0.308	0.3074	0	0	0	2.3067
160	0.0001	0.1314	0.1416	0.1416	0.1416	0.1416	0.1416	0.1416	0.1416	0.1416	0.2832	0.2832	0.283	0	0	0	2.1136
170	0	0.106	0.1307	0.1307	0.1307	0.1307	0.1307	0.1307	0.1307	0.1307	0.2614	0.2614	0.2612	0	0	0	1.9356
180	0	0.0778	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.242	0.242	0.242	0	0	0	1.7718
190	0	0.0519	0.1124	0.1124	0.1124	0.1124	0.1124	0.1124	0.1124	0.1124	0.2248	0.2248	0.2248	0	0	0	1.6255
200	0	0.0318	0.1047	0.1047	0.1047	0.1047	0.1047	0.1047	0.1047	0.1047	0.2094	0.2094	0.2094	0.0002	0	0	1.4978
210	0	0.0182	0.0976	0.0979	0.0979	0.0979	0.0979	0.0979	0.0979	0.0979	0.1958	0.1958	0.1958	0.0006	0	0	1.3891
220	0	0.0098	0.0905	0.0917	0.0917	0.0917	0.0917	0.0917	0.0917	0.0917	0.1834	0.1834	0.1834	0.0024	0	0	1.2948
230	0	0.0051	0.0828	0.0861	0.0861	0.0861	0.0861	0.0861	0.0861	0.0861	0.1722	0.1722	0.1722	0.0066	0	0	1.2138
240	0	0.0026	0.0738	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.162	0.162	0.162	0.0144	0	0	1.1438
250	0	0.0013	0.0634	0.0763	0.0763	0.0763	0.0763	0.0763	0.0763	0.0763	0.1526	0.1526	0.1526	0.0258	0	0	1.0824
260	0	0.0006	0.0521	0.0721	0.0721	0.0721	0.0721	0.0721	0.0721	0.0721	0.1442	0.1442	0.1442	0.04	0	0	1.03
270	0	0.0003	0.041	0.0682	0.0682	0.0682	0.0682	0.0682	0.0682	0.0682	0.1364	0.1364	0.1364	0.0546	0	0	0.9825
280	0	0.0002	0.0307	0.0645	0.0647	0.0647	0.0647	0.0647	0.0647	0.0647	0.1294	0.1294	0.1294	0.0678	0	0	0.9396

290	0	0.0001	0.0221	0.0608	0.0614	0.0614	0.0614	0.0614	0.0614	0.0614	0.1228	0.1228	0.1228	0.0786	0	0	0.8984
300	0	0	0.0154	0.0569	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.1168	0.1168	0.1168	0.086	0	0	0.8591
310	0	0	0.0103	0.0527	0.0556	0.0556	0.0556	0.0556	0.0556	0.0556	0.1112	0.1112	0.1112	0.0906	0	0	0.8208
320	0	0	0.0068	0.0479	0.053	0.053	0.053	0.053	0.053	0.053	0.106	0.106	0.106	0.0924	0	0	0.7831
330	0	0	0.0043	0.0426	0.0506	0.0506	0.0506	0.0506	0.0506	0.0506	0.1012	0.1012	0.1012	0.0926	0	0	0.7467
340	0	0	0.0027	0.037	0.0483	0.0484	0.0484	0.0484	0.0484	0.0484	0.0968	0.0968	0.0968	0.0912	0.0005	0	0.7121
350	0	0	0.0017	0.0312	0.0461	0.0463	0.0463	0.0463	0.0463	0.0463	0.0926	0.0926	0.0926	0.0892	0.001	0	0.6785
360	0	0	0.001	0.0256	0.044	0.0443	0.0443	0.0443	0.0443	0.0443	0.0886	0.0886	0.0886	0.0866	0.002	0	0.6465
370	0	0	0.0006	0.0205	0.0417	0.0425	0.0425	0.0425	0.0425	0.0425	0.085	0.085	0.085	0.0838	0.004	0	0.6181
380	0	0	0.0004	0.016	0.0393	0.0408	0.0408	0.0408	0.0408	0.0408	0.0816	0.0816	0.0816	0.0808	0.0075	0	0.5928
390	0	0	0.0002	0.0122	0.0368	0.0392	0.0392	0.0392	0.0392	0.0392	0.0784	0.0784	0.0784	0.078	0.012	0	0.5704
400	0	0	0.0001	0.0091	0.0339	0.0377	0.0377	0.0377	0.0377	0.0377	0.0754	0.0754	0.0754	0.0752	0.019	0	0.552
410	0	0	0.0001	0.0067	0.0308	0.0362	0.0363	0.0363	0.0363	0.0363	0.0726	0.0726	0.0726	0.0724	0.027	0	0.5362
420	0	0	0.0001	0.0048	0.0276	0.0348	0.0349	0.0349	0.0349	0.0349	0.0698	0.0698	0.0698	0.0698	0.037	0	0.5231
430	0	0	0	0.0034	0.0242	0.0334	0.0337	0.0337	0.0337	0.0337	0.0674	0.0674	0.0674	0.0674	0.0475	0	0.5129
440	0	0	0	0.0024	0.0209	0.032	0.0325	0.0325	0.0325	0.0325	0.065	0.065	0.065	0.065	0.058	0	0.5033
450	0	0	0	0.0017	0.0177	0.0305	0.0314	0.0314	0.0314	0.0314	0.0628	0.0628	0.0628	0.0628	0.0685	0	0.4952
460	0	0	0	0.0012	0.0148	0.029	0.0303	0.0303	0.0303	0.0303	0.0606	0.0606	0.0606	0.0606	0.0775	0.4861	0.9722
470	0	0	0	0.0008	0.0121	0.0273	0.0293	0.0293	0.0293	0.0293	0.0586	0.0586	0.0586	0.0586	0.086	0.4778	0.9556
480	0	0	0	0.0005	0.0097	0.0254	0.0283	0.0283	0.0283	0.0283	0.0566	0.0566	0.0566	0.0566	0.093	0.4682	0.9364
490	0	0	0	0.0004	0.0077	0.0235	0.0273	0.0274	0.0274	0.0274	0.0548	0.0548	0.0548	0.0548	0.0985	0.4588	0.9176
500	0	0	0	0.0002	0.0061	0.0214	0.0264	0.0266	0.0266	0.0266	0.0532	0.0532	0.0532	0.0532	0.1025	0.4492	0.8984

25

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2.6m/s

24pg

III

PCDD җ PCDF

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		300m	III
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		III	III
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		4-11III	
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		CH	CH	CH		CH

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SO₂SO₂CH4-12III

4-12

		SO ₂
%		50
mg/Nm ³		206.6
mg/Nm ³		80
	mg/Nm ³	0.03893
	%	7.79

4-12SO₂3.33

SO₂7.79%SO₂

15.78%III

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III

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4-13III

4-13

%		50	50
(mg/Nm ³)		5500	2.25ngTEQ/m ³
(mg/Nm ³)		20	0.1ngTEQ/m ³
	mg/Nm ³	0.4942	0.2749pgTEQ/m ³

	%	109.82	5.6
4-13			275
PM ₁₀		0.09	
0.2749pg TEQ/m ³		5.6%	
	III		
		360.8	
		III	
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3.			
	4-14	III	

4-14

	1 Ч SO ₂ Ч NO _x Ч CO Ч HCl Ч 2 Ч III
	Ч Ч
	ŷ III 5 Ÿ III III Ž III III ž III Ž III
	III (1) Ч HCl Ч SO ₂ Ч NO _x Ч Ч Pb Ч Cd Ч Hg (2) ŷ Ч 50m~100m III Ÿ 1~2 III Ž Ч 1 III

	ч	ч	ч	ч	ч
4.3.5					
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			III		
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				3	
	1620m ³ III			150t/d	
200t/d				III	Э
	Ю	GB50483-2009			
		III			
ŷ					
GB50483-2009	6.6.3	т			ч
				Ł	
	V1		7		V1=150 × 7=1050m ³ III
Ÿ					
	3		1620m ³		7
III					
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				7	
	1620m ³				III
				III	
3					
			4-15III		
4-15					
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	2				

4-17								
(m/s)			(mg/m ³)	(m)	LC50 (m)	PC-STEL (m)	IDLH (m)	(m)
2.6	D	5	86.5891	14.5	/	18.1	/	91.6
		10	86.5891	14.5	/	18.1	/	91.6
		30	0.0611	1048.2	/	/	/	
		60	0.0193	2079.1	/	/	/	
4-17		LC50 IDLH					18.1m	
		91.6m					300m	

III

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3m ×

4m × 1m

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III

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4-15III

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	2 III
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