

Analysis of In in Work Environment Air (Electrothermal Method)

ZA300	00							
INTRODU	meas (Notif which allows polari Thus, witho	ures and technica ication No. 1222-2 the work environ able concentratior zed zeeman elect it is possible to q	al guidelines 2 by the Lab ment needs n for the long trothermal at uantitatively	for laborers our Standa to be impro y-term expo tomic absor analyze In	s has been rds Bureau oved is 0.01 osure is 3 × rption spect 0.3 μg/L, tl	issued by th , Industrial S I mgIn/m ³ (Ir 10 ⁻⁴ mgIn/m crometry, the he level corre	n 10 μg/L in sample sol n³ (In 0.3 μg/L in sample	abour and Welfare .). The concentration at ution) and the e solution). In the large volume injection. le concentration,
ANA	LYTICAL CO	MEASUREMENT PARAMETERS				GA AUTOSAMPLER		
Element : In Instrument : ZA3000 Atomization : GA Wavelength : 325.6 nm Lamp Current : 10.0 mA Slit Width : 1.3 nm Cuvette : Pyro D HR		5.6 nm 0 mA nm	Meas. Mode : Working Curve Signal Mode : BKG Corrected Curve Order : Linear Calculation : Peak Height Time Constant : 0.1 sec Temp. Control : ON			prrected	Sample Volume : 60 µL Addition : Speed : 2 MATRIX MODIFIER Matrix Modifier : 100 mg/L Pd+Mg Volume : 20 µL Order : After	
TEMPERATURE PROGRAM							NOTE	
Stage 1 Drying 2 Inciner 3 Atomiz 4 Cleani	Tempe 8 11 ration 110 ration 280 ng 280	ial/Final H rature (°C) 0 / 110 0 / 300 0 / 1100 0 / 2800 0 / 2800	eating/Kee (sec) 40 / 0 40 / 0 20 / 0 0 / 3 0 / 4	ping Ga	as Flow Ra (mL/min) 200 200 200 0 200	ate Gas Normal Normal Normal Normal Normal	Pyro D HR, a cuv designed for twin for the measurem [Preparation Meth Inhalable dust wa filter collection me 20 minutes. The c dissolved in 15 m for extraction (wat	ette specially injection, was used ent. od] s collected by the ethod at 2 L/min for dust on the filter was L of the mixed acid ter: nitric acid: = 4 : 1: 3) and then,
С	ONC (µg/L)	Mean ABS	SD	RSD	REF	ABS		1 /
STD 1 STD 2 STD 3 STD 4 1	0.00 0.25 0.50 1.00 0.01	0.0000 0.0033 0.0072 0.0149 0.0000	0.0001 0.0000 0.0000 0.0001 0.0000	- % 0.00 % 0.00 % 0.67 % - %	0.0184 0.0206 0.0192 0.0206 0.0182	- 0.01 - -	0.5	*
2 3	0.01 0.30	0.0000 0.0043	0.0000 0.0002	- % 4.65 %	0.0178 0.0180	0.00		R ² : 0.9995
Reco ABS 0.02		o.3-No.2) : (0.30	-0.01)/0.3	× 100 = 96	δ.7 % STD 4 1 μg/L	0	CONC	,μg/L)
0.00 -	STD 1 0 µg/L - ₩ ₩	STD 2 0.25 μg/L	STC 0.5 μ	-			2 Work Enviro 1 Air Extra Blank Miv varva	
KEY WORDS Environmental Analysis Related, Air, Environmental Chemistry, Air Contamination, Work Environment, Handling of ITO, etc., Indium, In, Flameless, Graphite Furnace, Twin Injection, AA, ZA3000, GA, Pyro D HR,							Atomic Absorption Photometer (AA) Sheet No. AA120026-00	
Environment								

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