

Supplementary data

Colorimetric Textile Sensor for the Simultaneous Detection of NH₃ and HCl Gases

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Table of contents

Table S1. Effect of VOCs on the fabricated textile sensor based on mixed dyes.

Table S2. Content of hazardous materials of fabricated textile sensor.

Table S1. Effect of VOCs on the fabricated textile sensor based on mixed dyes

	Before exposure	After exposure
Formaldehyde		
Ether		
Methylene chloride		
Acetone		
Methanol		
Ethanol		
Toluene		

Table S2. Content of hazardous materials of fabricated textile sensor

Test conducted		Content (mg/kg)
Arylamines (Detection Limit 5 mg/kg)	4-Aminobiphenyl	< 5
	Benzidine	< 5
	4-Chloro-o-toluidine	< 5
	2-Naphthylamine	< 5
	o-Aminoazotoluene	< 5
	2-Amino-4-nitrotoluene	< 5
	4-Chloroaniline	< 5
	2,4-Diaminoanisole	< 5
	4,4'-Diamino-diphenylmethane	< 5
	3,3'-Dichlorobenzidine	< 5
	3,3'-Dimethoxybenzidine	< 5
	3,3'-Dimethylbenzidine	< 5
	4,4'-Methylenedi-o-toluidine	< 5
	p-Cresidine	< 5
	4,4'-Methylene-bis-(2-chloroaniline)	< 5
	4,4'-Oxydianiline	< 5
	4,4'-Thiodianiline	< 5
	o-Toluidine	< 5
	2,4-Toluylenediamine	< 5
	2,4,5-Trimethylaniline	< 5
	o-Anisidine	< 5
	4-Aminoazobenzene	< 5
	2,4-Xylidine	< 5
	2,6-Xylidine	< 5
Allergenic Disperse Dyes (Detection Limit 20 mg/kg)	Disperse Blue 1	< 20
	Disperse Blue 3	< 20
	Disperse Blue 7	< 20
	Disperse Blue 26	< 20
	Disperse Blue 35	< 20

Disperse Blue 102	< 20
Disperse Blue 124	< 20
Disperse Orange 1	< 20
Disperse Orange 3	< 20
Disperse Orange 37/76/59	< 20
Disperse Orange 149	< 20
Disperse Yellow 1	< 20
Disperse Yellow 3	< 20
Disperse Yellow 9	< 20
Disperse Yellow 23	< 20
Disperse Yellow 39	< 20
Disperse Yellow 49	< 20
Disperse Red 1	< 20
Disperse Red 11	< 20
Disperse Red 17	< 20
Disperse Brown 1	< 20
Formaldehyde content (Detection Limit 16 mg/kg)	Not detected
pH	7.2
Total lead(Pb) content (Detection Limit 10 mg/kg)	< 10
Total cadmium(Cd) content (Detection Limit 10 mg/kg)	< 10