



International Accreditation Japan

## Information on Accredited Reference Material Producer

Date of the update of the information : 2026-04-01

Accreditation Identification: ASNITE 0005 RMP

Name of Reference Material Producer : CERI TOKYO,  
Chemicals Evaluation and Research Institute, JAPAN

Location of Reference Material Producer : 1600 Shimotakano, Sugito-machi, Kitakatsushika-gun,  
Saitama 345-0043, JAPAN

Name of Legal Entity: Chemicals Evaluation and Research Institute, JAPAN

Conformance Accreditation Standard: ISO 17034:2016

Expiry Date of Accreditation : 2028-01-31

Category: Chemical Reference Materials

Type: Certified Reference Material

Property Characterized: Concentration

Measurement technique: Gravimetric blending method

The Approach Used to Assign a Property Value: a single reference measurement procedure in a single laboratory  
(ISO 17034:2016 7.12.3 NOTE 1 a))

Sub-Category	Analyte or Component	Range of Property Value	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)	Effective Date of Accreditation
Standard gas (jess)	Methane (air dilution)	From 1 vol ppm to less than 5 vol ppm	0.50 %	2023-02-01
		From 5 vol ppm to 50 vol ppm	0.20 %	
	Propane (air dilution)	From 3.5 vol ppm to 500 vol ppm	0.25 %	
	Propane (nitrogen dilution)	From 150 vol ppm to 1.5 vol %	0.25 %	
	Carbon monoxide (nitrogen dilution)	From 3 vol ppm to less than 10 vol ppm	0.40 %	
		From 10 vol ppm to 15 vol %	0.30 %	
	Carbon dioxide (nitrogen dilution)	From 3 vol ppm to less than 200 vol ppm	0.45 %	
		From 200 vol ppm to 16 vol %	0.30 %	
	Nitric oxide (nitrogen dilution)	From 0.05 vol ppm to less than 0.1 vol ppm	12 %	
		0.1 vol ppm	4.5 %	
		More than 0.1 vol ppm to less than 0.5 vol ppm	3.0 %	
		From 0.5 vol ppm to less than 1 vol ppm	0.80 %	
	Nitric dioxide (air dilution)	From 1 vol ppm to 5 vol %	0.40 %	
		From 5 vol ppm to 50 vol ppm	0.80 %	
	Oxygen (nitrogen dilution)	From 1 vol % to 25 vol %	0.15 %	
		From 98 vol % to 100 vol %	0.05 %	
	Sulfur dioxide (air dilution)	From 0.05 vol ppm to less than 0.1 vol ppm	19 %	
		0.1 vol ppm	9.0 %	
	Sulfur dioxide (nitrogen dilution)	From 0.1 vol ppm to less than 0.5 vol ppm	3.2 %	
		From 0.5 vol ppm to less than 1 vol ppm	0.80 %	
From 1 vol ppm to less than 20 vol ppm		0.60 %		
From 20 vol ppm to 1 vol %		0.40 %		

Accreditation Category for Certified Reference Materials Producer: Chemical Reference Materials  
RM/CRM: CRM

Sub-Category	Analyte or Component	Range of Property Value	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)	Effective Date of Accreditation
Standard gas (jess)	Ammonia (nitrogen dilution)	From 20 vol ppm to 100 vol ppm	1.5 %	2023-02-01
	Ethanol (nitrogen dilution)	From 100 vol ppm to less than 500 vol ppm	0.9 %	
		500 vol ppm	0.6 %	
	Ethanol (air dilution)	From 100 vol ppm to less than 500 vol ppm	1.1 %	
		500 vol ppm	0.7 %	
	Zero gas (Air or N <sub>2</sub> )	coexisting analytes CH <sub>4</sub> : 0.1 vol ppm or less than, CO: 0.1 vol ppm or less than, CO <sub>2</sub> : 0.1 vol ppm or less than, NO <sub>x</sub> : 0.005 vol ppm or less than, SO <sub>2</sub> : 0.005 vol ppm or less than,	—	

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Sub-Category	Analyte or Component	Range of Property Value	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)	Effective Date of Accreditation
Standard gas (CCQM)	Methane (air dilution)	From 1 vol ppm to less than 10 vol ppm	3.6 % to 0.36 %	2023-02-01
		From 10 vol ppm to 50 vol ppm	0.36 %	
	Propane (air dilution)	From 3.5 vol ppm to less than 10 vol ppm	0.31 % to 0.25 %	
		From 10 vol ppm to 500 vol ppm	0.25 %	
	Propane (nitrogen dilution)	From 150 vol ppm to 1.5 vol %	0.25 %	
	Carbon monoxide (nitrogen dilution)	From 3 vol ppm to less than 5 vol ppm	0.60 % to 0.40 %	
		From 5 vol ppm to 15 vol %	0.40 %	
	Carbon dioxide (nitrogen dilution)	From 10 vol ppm to 16 vol %	0.36 %	
	Nitric oxide (nitrogen dilution)	From 0.1 vol ppm to less than 10 vol ppm	32 % to 0.40 %	
		From 10 vol ppm to 5 vol %	0.40 %	
	Nitric dioxide (air dilution)	From 5 vol ppm to 50 vol ppm	3.0 %	
	Oxygen (nitrogen dilution)	From 1.0 vol % to 25 vol %	0.15 %	
	Sulfur dioxide (nitrogen dilution)	From 0.1 vol ppm to less than 10 vol ppm	6.0 % to 0.60 %	
		From 10 vol ppm to 1 vol %	0.60 %	
	Ammonia (nitrogen dilution)	From 20 vol ppm to 100 vol ppm	1.5 %	
Ethanol (nitrogen dilution)	From 100 vol ppm to 500 vol ppm	1.1 %		
Ethanol (air dilution)	From 100 vol ppm to 500 vol ppm	1.1 %		

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Sub-Category	Analyte or Component	Range of Property Value	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)	Effective Date of Accreditation
Standard gas (CCQM)	8 mixture (nitrogen dilution)			2023-02-01
	benzene	50 vol ppb ~ 100 vol ppm	2 % to 1 %	
	chloroform		2 % to 1 %	
	dichloromethane		2 % to 1 %	
	trichloroethylene		2 % to 1 %	
	1,2-dichloroethane		3 % to 2 %	
	tetrachloroethylene		2 % to 1 %	
	1,3-butadiene		2 % to 1 %	
	vinyl chloride		2 % to 1 %	
	5 mixture (nitrogen dilution)			
	benzene	20 vol ppb ~ 100 vol ppb	1.6 vol ppb *	
	toluene		1.0 vol ppb *	
	<i>m</i> - xylene		1.0 vol ppb *	
	<i>o</i> - xylene		1.0 vol ppb *	
	ethylbenzene		1.0 vol ppb *	
	3 mixture (nitrogen dilution)			
	benzene	2 vol ppb ~ 20 vol ppb	0.9 vol ppb *	
toluene	0.7 vol ppb *			
<i>o</i> - xylene	0.7 vol ppb *			

note) \*: absolute value

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Sub-Category	Analyte or Component	Range of Property Value (mg/L)	Diluted Solution	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)		Effective Date of Accreditation
				From 100 mg/L less than 1000 mg/L	1000 mg/L	
Standard solution	Chloroform	100 to 1000	Methanol	2.0 %	1.7 %	2023-02-01
			Hexane	0.6 %	0.7 %	
	1,2-Dichloroethane	100 to 1000	Methanol	0.8 %	1.3 %	
			Hexane	1.6 %	0.8 %	
	Dichloromethane	100 to 1000	Methanol	1.5 %	1.4 %	
			Hexane	1.4 %	1.2 %	
	Carbon tetrachloride	100 to 1000	Methanol	2.0 %	1.2 %	
			Hexane	1.9 %	0.8 %	
	Tetrachloroethylene	100 to 1000	Methanol	2.8 %	1.7 %	
			Hexane	0.6 %	0.8 %	
	Toluene	100 to 1000	Methanol	0.9 %	2.4 %	
			Hexane	0.9 %	2.0 %	
	Trichloroethylene	100 to 1000	Methanol	2.4 %	1.6 %	
			Hexane	0.8 %	1.3 %	
	Benzene	100 to 1000	Methanol	1.0 %	0.8 %	
			Hexane	0.6 %	0.6 %	
	<i>o</i> -Xylene	100 to 1000	Methanol	1.0 %	0.8 %	
			Hexane	0.7 %	0.8 %	
	<i>m</i> -Xylene	100 to 1000	Methanol	1.2 %	0.7 %	
			Hexane	0.7 %	0.7 %	
<i>p</i> -Xylene	100 to 1000	Methanol	1.0 %	0.8 %		
		Hexane	0.7 %	0.6 %		
1,1-Dichloroethylene	100 to 1000	Methanol	1.5 %	1.2 %		
		Hexane	0.8 %	1.3 %		
<i>cis</i> -1,3-Dichloropropene	100 to 1000	Methanol	1.3 %	1.2 %		
		Hexane	1.6 %	0.9 %		
<i>cis</i> -1,2-Dichloroethylene	100 to 1000	Methanol	0.9 %	0.7 %		
		Hexane	1.0 %	0.9 %		

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Sub-Category	Analyte or Component	Range of Property Value (mg/L)	Diluted Solution	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)		Effective Date of Accreditation
				From 100 mg/L less than 1000 mg/L	1000 mg/L	
Standard solution	1,1,1-Trichloroethane	100 to 1000	Methanol	1.8 %	0.8 %	2023-02-01
			Hexane	1.3 %	0.9 %	
	1,1,2-Trichloroethane	100 to 1000	Methanol	0.9 %	0.6 %	
			Hexane	0.8 %	0.8 %	
	<i>trans</i> -1,3-Dichloropropene	100 to 1000	Methanol	1.5 %	1.3 %	
			Hexane	0.8 %	0.8 %	
	Diethyl phthalate	1000	Methanol	—	0.9 %	
			Hexane	—	0.7 %	
	Di- <i>n</i> -butyl phthalate	1000	Methanol	—	0.8 %	
			Hexane	—	1.0 %	
	Di-2-ethylhexyl phthalate	1000	Methanol	—	0.9 %	
			Hexane	—	1.5 %	
	Butylbenzyl phthalate	1000	Methanol	—	0.5 %	
			Hexane	—	0.7 %	
	4- <i>t</i> -Octylphenol	1000	Methanol	—	0.4 %	
			Hexane	—	0.7 %	
	4- <i>t</i> -Butylphenol	1000	Methanol	—	0.5 %	
			Hexane	—	0.5 %	
	4- <i>n</i> -Heptylphenol	1000	Methanol	—	0.7 %	
			Hexane	—	0.5 %	
	Tribromomethane	100 to 1000	Methanol	0.3 %	0.3 %	
			Hexane	0.4 %	0.3 %	
	Bromodichloromethane	100 to 1000	Methanol	0.4 %	0.3 %	
			Hexane	0.4 %	0.3 %	
Dibromochloromethane	100 to 1000	Methanol	0.3 %	0.2 %		
		Hexane	0.4 %	0.3 %		
<i>trans</i> -1,2-Dichloroethylene	100 to 1000	Methanol	0.5 %	0.3 %		
		Hexane	0.3 %	0.4 %		
1,2-Dichloropropane	100 to 1000	Methanol	0.4 %	0.4 %		
		Hexane	0.5 %	0.5 %		

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Sub-Category	Analyte or Component	Range of Property Value (mg/L)	Diluted Solution	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)		Effective Date of Accreditation
				From 100 mg/L less than 1000 mg/L	1000 mg/L	
Standard solution	1,4-Dichlorobenzene	100 to 1000	Methanol	0.4 %	0.3 %	2023-02-01
			Hexane	0.4 %	0.3 %	
	Bisphenol A	1000	Methanol	—	0.3 %	
			Hexane	—	—	
	4- <i>n</i> -Nonylphenol	1000	Methanol	—	0.4 %	
			Hexane	—	0.5 %	
	2,4-Dichlorophenol	1000	Methanol	—	0.4 %	
			Hexane	—	0.4 %	

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				From 100 mg/L less than 1000 mg/L	1000 mg/L	
Standard solution	23 VOC Mixture Standard Solution					
	Dichloromethane	1000	Methanol	—	0.5 %	2023-02-01
	Chloroform				0.5 %	
	Carbon tetrachloride				0.5 %	
	Trichloroethylene				0.5 %	
	Tetrachloroethylene				0.5 %	
	1,2-Dichloroethane				0.5 %	
	Toluene				0.5 %	
	Benzene				0.5 %	
	<i>o</i> -Xylene				0.5 %	
	<i>m</i> -Xylene				0.5 %	
	<i>p</i> -Xylene				0.5 %	
	1,1,1-Trichloroethane				0.5 %	
	1,1-Dichloroethylene				1.0 %	
	<i>cis</i> -1,2-Dichloroethylene				0.5 %	
	1,1,2-Trichloroethane				0.5 %	
	<i>trans</i> -1,3-Dichloropropene				2.5 %	
	<i>cis</i> -1,3-Dichloropropene				2.0 %	
	Tribromomethane				0.5 %	
	Bromodichloromethane				0.5 %	
	Dibromochloromethane				0.5 %	
	<i>trans</i> -1,2-Dichloroethylene				0.5 %	
	1,2-Dichloropropane				0.5 %	
1,4-Dichlorobenzene	0.5 %					

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Sub-Category	Analyte or Component	Range of Property Value (mg/L)	Diluted Solution	Expanded Uncertainty (level of confidence approximately 95 %) (relative value)		Effective Date of Accreditation	
				From 100 mg/L less than 1000 mg/L	1000 mg/L		
Standard solution	6 Alkylphenol Mixture Standard Solution						
	4- <i>t</i> -Octylphenol	100	Methanol	0.5 %	-	2023-02-01	
	2,4-Dichlorophenol			0.5 %	-		
	4- <i>n</i> -Nonylphenol			1.0 %	-		
	Bisphenol A			1.0 %	-		
	4- <i>t</i> -Butylphenol			0.5 %	-		
	4- <i>n</i> -Heptylphenol			1.0 %	-		
	5 Alkylphenol Mixture Standard Solution						
	4- <i>t</i> -Octylphenol	100	Hexane	0.5 %	-		
	2,4-Dichlorophenol			0.5 %	-		
	4- <i>n</i> -Nonylphenol			1.0 %	-		
	4- <i>t</i> -Butylphenol			1.0 %	-		
	4- <i>n</i> -Heptylphenol			1.0 %	-		
	8 Ester Phthalates Mixture Standard Solution						
	Diethylphthalate	100	Hexane	0.5 %	-		
	Di-2-ethylhexyl phthalate			1.0 %	-		
	Di- <i>n</i> -butyl phthalate			0.5 %	-		
	Butylbenzyl phthalate			0.5 %	-		
	Di- <i>n</i> -hexyl phthalate			1.0 %	-		
	Dicyclohexyl phthalate			1.0 %	-		
	Di- <i>n</i> -pentyl phthalate			0.5 %	-		
Di- <i>n</i> -propyl phthalate	1.5 %			-			

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				From 100 mg/L less than 1000 mg/L	1000 mg/L	
Standard solution	Di- <i>n</i> -hexyl phthalate	100	Hexane	1.0 %	—	2023-02-01
	Dicyclohexyl phthalate	100	Hexane	1.0 %	—	
	Di- <i>n</i> -pentyl phthalate	100	Hexane	0.5 %	—	
	Di- <i>n</i> -propyl phthalate	100	Hexane	1.5 %	—	

*(End of Attachment)*