

Name of Accreditation Program	JCSS Accreditation Program
Accreditation Identification	JCSS 0010 Calibration
Date of Initial Accreditation	2020-3-12
Effective Date of Accreditation	2020-3-12
Expiry Date of Accreditation	2024-3-11
Name and Location of Conformity Assessment Body	Chiba Quality Assurance Section, Quality Assurance Department, SUMITOMO SEIKA CHEMICALS CO., LTD. 1384-1 Kamikoya, Yachiyo City, Chiba 276-0022, Japan
Name of Legal Entity	SUMITOMO SEIKA CHEMICALS CO., LTD. JCN 6140001044373
Inquiry Point	Chiba Quality Assurance Section Tel: +81-47-483-0486 FAX: +81-47-483-0961
Accreditation Requirements	ISO/IEC 17025:2017 and Accreditation Requirements in the Section 6 of Accreditation Scheme (JCSS) 2nd Edition
Accreditation Scope	As attached

*JCN: Japan Corporate Number

General Field of Calibration: ConcentrationDate of Initial Accreditation as a Calibration Laboratory: 2020-03-12Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facilityCalibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (*) (Level of Confidence Approximately 95 %)
Standard gases	Methane standard gases (air balance)	From 1 vol ppm up to 50 vol ppm	1.0 %
	Propane standard gases (air balance)	From 3.5 vol ppm up to 500 vol ppm	1.0 %
	Propane standard gases (nitrogen balance)	From 150 vol ppm up to 1.5 vol %	1.0 %
	Carbon monoxide standard gases (nitrogen balance)	From 3 vol ppm up to 15 vol %	1.0 %
	Carbon dioxide standard gases (nitrogen balance)	From 300 vol ppm up to 16 vol %	1.0 %
	Nitric oxide standard gases (nitrogen balance)	From 0.5 vol ppm up to 1 vol ppm	5.0 %
		More than 1 vol ppm up to 5 vol ppm	1.5 %
		More than 5 vol ppm up to 5 vol %	1.0 %
	Nitrogen dioxide standard gases (air balance)	From 5 vol ppm up to 50 vol ppm	5.0 %
	Oxygen standard gases (nitrogen balance)	From 1 vol % up to 25 vol %	1.0 %
	Sulfur dioxide standard gases (nitrogen)	From 0.5 vol ppm up to 1 vol ppm	3.0 %
		More than 1 vol ppm up to 50 vol ppm	1.5 %
		More than 50 vol ppm up to 1 vol %	1.0 %
	Zero gases for industrial emission monitoring (air or nitrogen balance)	coexisting analytes CH ₄ : 0.5 vol ppm or less than, CO: 1.0 vol ppm or less than, CO ₂ : 1.0 vol ppm or less than, NO _x : 0.1 vol ppm or less than, SO ₂ : 0.1 vol ppm or less than,	-
Zero gas for air quality monitoring (air)	coexisting analytes NO _x : 0.005 vol ppm or less than, SO ₂ : 0.005 vol ppm or less than,	-	

#All Calibration Procedures are in-house procedures developed by this laboratory.

(*) relative value