
**Stationary source emissions —
Sampling and determination of
mercury compounds in flue gas using
gold amalgamation trap**

*Émissions de sources fixes — Échantillonnage et détermination de la
teneur en mercure dans les gaz de combustion en utilisant un piège
d'amalgamation de l'or*

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols and abbreviated terms	2
4.1 Symbols.....	2
4.2 Abbreviated terms.....	4
5 Principle	4
6 Reagents	4
6.1 General.....	4
6.2 Water.....	5
6.3 Nitric acid.....	5
6.4 Sulfuric acid.....	5
6.5 Stannous chloride solution.....	5
6.6 Phosphate buffer solution.....	5
6.7 Hydrofluoric acid.....	5
6.8 Hydrochloric acid.....	5
6.9 Mercury stock solution.....	5
6.10 Rinse solution.....	5
6.11 Sample gas drying agent.....	5
6.12 Trapping agent of mercury.....	6
7 Apparatus	6
7.1 General.....	6
7.1.1 Main-stream sampling.....	6
7.1.2 Side-stream sampling.....	8
7.2 Nozzle.....	9
7.3 Filter and filter housing.....	9
7.4 Transfer line.....	10
7.5 Pretreatment unit.....	10
7.6 Gold amalgamation trap.....	11
7.7 Drying unit.....	11
7.8 Suction unit.....	11
7.9 Thermometer.....	11
7.10 Manometer.....	12
7.11 Gas meter.....	12
7.12 Flowmeter.....	12
7.13 Barometer.....	12
8 Sampling	12
8.1 General.....	12
8.2 Sampling position and sampling point.....	12
8.3 Sampling duration and sample volume.....	12
8.4 Other measurements to be made prior to sampling.....	13
8.4.1 Volumetric gas flow through duct at the sampling plane.....	13
8.4.2 Moisture content of gas.....	13
8.4.3 Oxygen content of gas.....	13
8.5 Assembly of sampling apparatus.....	13
8.6 Sampling.....	13
8.7 Checking for leaks.....	14
8.8 Quality assurance.....	14
8.9 Sample recovery.....	14

8.10	Reagent blank.....	15
8.11	Field blank.....	15
9	Sample preparation.....	15
9.1	General.....	15
9.2	Sample preparation for particulate mercury analysis.....	15
10	Analytical procedure.....	16
10.1	Analytical procedure for mercury collected with gold amalgamation trap.....	16
10.2	Analytical procedure for mercury in rinse solution and digested solution.....	17
11	Expression of results.....	17
11.1	Calculation of the volume of dry flue gas sampled at sampling conditions.....	17
11.2	Calculation of the volume of dry flue gas sample normalized to standard temperature and pressure.....	18
11.3	Mass concentration of mercury expressed as elemental mercury in the flue gas on a dry basis at STP.....	18
11.4	Mass concentration of mercury expressed as elemental mercury in the flue gas on a dry basis at STP and reference oxygen volume fraction.....	20
11.5	Rate of mass discharge of mercury expressed as elemental mercury.....	20
11.6	Mass concentration of mercury expressed as elemental mercury in the flue gas on a wet basis at STP.....	20
11.7	Mass concentration of mercury expressed as elemental mercury in the flue gas on a wet basis at STP and reference oxygen concentration.....	21
12	Performance characteristics.....	21
12.1	Detection limits.....	21
12.2	Evaluation of measurement uncertainty.....	21
13	Test report.....	22
Annex A (informative) Preparation of mercury reference gas.....		24
Annex B (informative) Results of evaluation of measurement uncertainties.....		27
Annex C (informative) Comparison of analytical results obtained with heated solid catalytic reduction unit and stannous chloride solution unit.....		29
Annex D (informative) Comparison of analytical results obtained with this method and EN 13211.....		31
Annex E (informative) Interference from sulfur dioxide (SO₂) on the recovery of elemental mercury and oxidized mercury.....		33
Bibliography.....		35

Foreword

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This document was prepared by Technical Committee ISO/TC 146, *Air quality*, Subcommittee SC 1, *Stationary source emissions*.

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Introduction

Because mercury is exhausted from stationary sources such as coal combustion plants, cement kilns, non-ferrous metal smelting operations and roasting plants, and waste incineration facilities, the monitoring of the stationary source mercury mass emissions is increasingly important for preventing global environmental pollution and health damage caused by mercury.

This document describes a method for the sampling and determination of mercury concentrations in a flue gas passing through ducts or chimney stacks. Mercury generally exists as elemental (Hg^0) and oxidized (Hg^{2+}) forms, both in vapour and in solid phases in flue gases, this method allows the determination of both total vapour-phase mercury and total solid-phase mercury concentrations in flue gases.

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