

CORESTA Recommended Methods with history and correspondence with ISO Standards *(updated February 2018)*

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REF	TITLE	Version	DATE	Bulletin or CD/Web	Observations	ISO equivalent	By Sub-Group (SG) / Task Force (TF)
N° 1	Determination of Dithiocarbamates in Tobacco	3	Nov 1978	1978-2	v1: 1973-1 v2: 1974-2	6466:1983	-
N° 2	<i>Determination of Organochlorine Pesticide Residues on Tobacco</i>	3	May 1997	1997-1	v1: 1974-2 v2: 1994-3/4 <i>Withdrawn May 2014 (obsolete)</i>	4389:2000 v1-1981 ; v2-1997	SG Pesticides
N° 3	<i>Determination of the air permeability of cigarette paper</i>	1	1976	1975-3/4	Replaced by CRM40		-
N° 4	<i>Determination of Maleic Hydrazide Residues in Tobacco</i>	1	Sept 1976	1976-2	Withdrawn June 2013 (obsolete)	4876:1980	
N° 5	Determination of Carbon Monoxide in the Mainstream Smoke of Cigarettes by Non-Dispersive Infrared Analysis	2	Sept 1993	1993-4	v1: 1982-2	8454:2007 v1-1987 ; v2-1995	TF Gas Phase*
N° 6	Measurement of Ventilation : Definitions and Measurement Principles	3	Sept 2016	Web	v1: 1983-2/3 v2: 2000-1	9512:2002 v1-1993	TF Filter Ventilation* SG Physical Test Methods
N° 7	Determination of Nicotine in the Mainstream Smoke of Cigarettes by Gas Chromatographic Analysis	2	Aug 1991	1991-3	v1: 1986-3/4	10315:2000 v1-1991	TF Review of Smoking Methods*
N° 8	Determination of Water in the Mainstream Smoke of Cigarettes by Gas Chromatographic Analysis	2	Aug 1991	1991-3	v1: 1987-2	10362-1:1999 v1-1991	TF Review of Smoking Methods*
N° 9	Determination of Nicotine in Cigarette Filters by Gas Chromatographic Analysis	2	Apr 2009	CD 28	v1: 1989-2		SG Routine Analytical Chemistry
N° 10	<i>Machine smoking of cigarettes - Determination of crude and dry smoke condensate</i>	1	Sept 1968	1969-1	Replaced by CRM23		-
N° 12	Determination of Alkaloids in Cigarette Smoke Condensate	1	Sept 1968	1969-2		3400:1997 v1-1976 ; v2-1989	
N° 13	Determination of Alkaloid Retention by Cigarette Filters	1	Sept 1968	1969-2	By spectrophotometry	3401:1991 v1-1977 by GC: 3401-2	

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N° 14	<i>Determination of nicotine in ambient air by gas chromatographic analysis</i>	2	Sept 1993	1993-4	v1: 1990-1 Replaced by CRM50		-
N° 15	Cigarettes - Determination of Water in Smoke Condensates - Karl Fischer Method	1	Mar 1990	1990-2		10362-2:1994	
N° 16	Lamina Strip Particle Size Determination	1	Jan 1991	1991-1		12194:1995	TF Tobacco Size*
N° 17	Stem Content of Lamina Strips	1	Jan 1991	1991-1		12195:1995	TF Tobacco Size*
N° 18	<i>Materials used as cigarette tipping papers having a perforated zone - Determination of unit air-flow and permeability</i>	1	Jan 1991	1991-1	Replaced by CRM40		-
N° 20	Determination of Alkaloids in Manufactured Tobacco	1	Sept 1968	1969-2		2881:1992 v1-1974 ; v2-1977	
N° 21	Atmosphere for Conditioning and Testing Tobacco and Tobacco Products	2	Aug 1991	1991-3	v1: 1989-4	3402:1999 v1-1975 ; v2-1978 ; v3 1991	TF Review of Smoking Methods*
N° 22	Routine Analytical Cigarette-Smoking Machine: Specifications, Definitions and Standard Conditions	2	Aug 1991	1991-3	v1: 1989-4	3308:2000 v1-1977 ; v2-1986 ; v3 1991	TF Review of Smoking Methods*
N° 23	Determination of Total and Nicotine-Free Dry Particulate Matter using a Routine Analytical Cigarette-Smoking Machine Determination of Total Particulate Matter and Preparation for Water and Nicotine Measurements	2	Aug 1991	1991-3	v1: 1989-4	4387:2000 v1-1987 ; v2-1991	TF Review of Smoking Methods*
N° 24	Cigarettes - Sampling	2	Aug 1991	1991-3	v1: 1989-4	8243:2006 v1-1988 ; v2-1991 ; v3 2003	
N° 25	Ambiant Air-Flow around Cigarettes in Routine Analytical Smoking Machines: Control and Monitoring	1	Aug 1991	1991-3			TF Review of Smoking Methods* SG Routine Analytical Chemistry
N° 30	<i>Determination of Residues of the Suckercide Flumetralin (Prime Plus, CGA-41065) on Tobacco</i>	1	Jun 1991	1991-2	Withdrawn May 2014 (obsolete)		SG Pesticides
N° 31	<i>Determination of Residues of the Suckercide Pendimethalin (Accotab, Stomp) on Tobacco</i>	1	Jun 1991	1991-2	Withdrawn May 2014 (obsolete)		SG Pesticides

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N° 32	<i>Determination of Residues of the Suckercide Off-Shoot-T (N-Alkanol Mixture) on Tobacco</i>	1	Jun 1991	1991-2	Withdrawn May 2014 (obsolete)		SG Pesticides
N° 33	Determination of Acetate in Cigarette Paper	1	Jan 1993	1992-3/4		20370:2009	TF Burning Additives in Cigarette Paper*
N° 34	Determination of Citrate in Cigarette Paper	1	Jan 1993	1992-3/4		20369:2009	TF Burning Additives in Cigarette Paper*
N° 35	<i>Determination of Total Alkaloids (as Nicotine) in Tobacco by Continuous Flow Analysis</i>	2	Aug 2010	CD 31	v1: Nov 1994 (1994-3/4) Replaced by CRM85	15152:2003	SG Routine Analytical Chemistry
N° 36	Determination of Nitrate in Tobacco and Smokeless Tobacco Products by Reduction to Nitrite and Continuous Flow Analysis	4	Jan 2015	Web	v1: Nov 1994 (1994-3/4) v2: Aug 2010 (CD31) v3: Aug 2011 (Web)	15517:2003	SG Routine Analytical Chemistry SG Smokeless Tobacco [‡]
N° 37	Determination of Reducing Substances in Tobacco by Continuous Flow Analysis	2	Aug 2010	CD 31	v1: Nov 1994 (1994-3/4)	15153:2003	SG Routine Analytical Chemistry
N° 38	Determination of Reducing Carbohydrates in Tobacco by Continuous Flow Analysis	2	Aug 2010	CD 31	v1: Nov 1994 (1994-3/4)	15154:2003	SG Routine Analytical Chemistry
N° 39	Determination of the Purity of Nicotine and Nicotine Salts by Gravimetric Analysis - Tungstosilicic Acid Method	1	Nov 1994	1994-3/4		13276:1997	SG Routine Analytical Chemistry
N° 40	<i>Determination of Air Permeability of Materials used as Cigarette Papers, Filter Plug Wrap and Filter Joining Paper including Materials having an Oriented Permeable Zone</i>	1	Oct 1994	1994-3/4	Withdrawn Jan 2017 (obsolete)	2965:2009 v1-1979 ; v2-1997	TF Air Permeability Through Paper*
N° 41	Determination of the Draw Resistance of Cigarettes and Filter Rods	2	Jun 2007	CD 24	v1: 1995-1	6565:2002 v1-1983 ; v2-1999	TF Pressure Drop*
N° 42	Atmosphere for Conditioning and Testing Fine-Cut Tobacco and Fine-Cut Smoking Articles	1	Jun 1997	1997-1		15592-2:2001	TF Roll-Your-Own*
N° 43	Fine-Cut Tobacco - Sampling	1	Jun 1997	1997-1		15592-1:2001	TF Roll-Your-Own*
N° 45	Determination of Phosphate in Cigarette Paper	1	Jan 1998	1997-4			TF Burning Additives in Cigarette Paper*
N° 46	Atmosphere for Conditioning and Testing Cigars of all Sizes and Shapes	1	May 1998	1998-1			SG Cigars

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N° 47	Cigars – Sampling	1	Jan 2000	2000-1			SG Cigars
N° 50	Environmental Tobacco Smoke - Determination of Nicotine and 3-Ethenylpyridine in the Vapour Phase	1	Jan 2002	CD 13		18145:2003	SG Environmental Tobacco Smoke*
N° 51	Environmental Tobacco Smoke - Estimation of its Contribution to Respirable Suspended Particles - Determination of Particulate Matter by Ultraviolet Absorbance and by Fluorescence	1	Jan 2002	CD 13		15593:2001	SG Environmental Tobacco Smoke*
N° 52	Environmental Tobacco Smoke - Estimation of its Contribution to Respirable Suspended Particles - Method based on Solanesol Determination	1	Jan 2002	CD 13		18144:2003	SG Environmental Tobacco Smoke*
N° 53	Determination of Paper Wrapper Burn Speed	1	May 2002	CD 14			TF Cigarette Paper Combustibility* SG Physical Test Methods
N° 54	Determination of Nicotine and Nicotine-Free Dry Particulate Matter in Sidestream Smoke using a Fishtail Chimney and a Routine Analytical/Linear Smoking Machine	2	May 2011	CD 32	v1: Jun 2002 (CD15)	20773:2013	SG Routine Analytical Chemistry
N° 55	Determination of Carbon Monoxide in the Vapour Phase of Cigarette Sidestream Smoke using a Fishtail Chimney and a Routine Analytical/Linear Smoking Machine	2	May 2011	CD 32	v1: Jun 2002 (CD15)	20774:2013	SG Routine Analytical Chemistry
N° 56	Determination of Water in Tobacco and Tobacco Products by Karl Fischer Method	2	May 2011	CD 32	v1: Dec 2002 (CD16)	6488:2004 v1-1981	SG Routine Analytical Chemistry SG Smokeless Tobacco [‡]
N° 57	Determination of Water in Tobacco and Tobacco Products by Gas Chromatographic Analysis	1	Dec 2002	CD 16		16632:2003	SG Routine Analytical Chemistry
N° 58	Determination of Benzo[a]Pyrene in Cigarette Mainstream Smoke – Gas Chromatography-Mass Spectrometry Method	4	Jan 2018	Web	v1: Feb 2004 (CD18) v2: Mar 2013 (Web) v3: July 2014 (Web)	22634/1:2008	SG Smoke Analytes
N° 59	Determination of Triacetin in Filter Rods by Gas Chromatographic Analysis	1	June 2004	CD 20			TF Plasticisers in Filter Production*

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N° 60	Determination of 1,2-Propylene Glycol and Glycerol in Tobacco and Tobacco Products by Gas Chromatography	3	July 2015	Web	v1: Feb 2005 (CD20) v2: May 2011 (CD32)		SG Routine Analytical Chemistry SG Smokeless Tobacco [‡]
N° 61	Determination of 1,2-Propylene Glycol, Glycerol and Sorbitol in Tobacco and Tobacco Products by High Performance Liquid Chromatography (HPLC)	3	July 2015	Web	v1: Feb 2005 (CD20) v2: May 2011 (CD32)		SG Routine Analytical Chemistry SG Smokeless Tobacco [‡]
N° 62	Determination of Nicotine in Tobacco and Tobacco Products by Gas Chromatographic Analysis	1	Feb 2005	CD 20			SG Routine Analytical Chemistry
N° 63	Determination of Tobacco Specific Nitrosamines in Cigarette Mainstream Smoke - GC-TEA Method	1	June 2005	CD 20			SG Special Analytes [‡]
N° 64	Routine Analytical Cigar-Smoking Machine - Specifications, Definitions and Standard Conditions	1	Nov 2005	CD 21			SG Cigars
N° 65	Determination of Total and Nicotine-Free Dry Particulate Matter using a Routine Analytical Cigar-Smoking Machine – Determination of Total Particulate Matter and Preparation for Water and Nicotine Measurements	4	June 2010	CD31	v1: Nov 2005 (CD21) v2: Jun 2007 (CD24) v3: Jan 2010 (CD30)		SG Cigars
N° 66	Determination of Nicotine in the Mainstream Smoke of Cigars by Gas Chromatographic Analysis	1	Nov 2005	CD 21			SG Cigars
N° 67	Determination of Water in the Mainstream Smoke of Cigars by Gas Chromatographic Analysis	1	Nov 2005	CD 21			SG Cigars
N° 68	Determination of Carbon Monoxide in the Mainstream Smoke of Cigars by Non-Dispersive Infrared Analysis	1	Jan 2010	CD 30			SG Cigars
N° 69	Determination of pH in Tobacco and Tobacco Products	2	July 2017	CD 31	v1: Jun 2010 (CD31)		SG Smokeless Tobacco [‡] SG Tobacco and Tobacco Products Analytes
N° 70	Determination of Selected Volatile Organic Compounds in the Mainstream Smoke of Cigarettes - Gas Chromatography-Mass Spectrometry Method	4	Feb 2018	Web	v1: Jun 2010 (CD30) v2: Mar 2013 (Web) v3: July 2014 (Web)	Proposed Sept 2015 Accepted Dec 2015 New Project ISO 21330	SG Special Analytes [‡]

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N° 71	Smokeless Tobacco Products - Sampling	1	Nov 2011	Web			SG Smokeless Tobacco [‡]
N° 72	Determination of Tobacco Specific Nitrosamines in Tobacco and Tobacco Products by Liquid Chromatography - Tandem Mass Spectrometry	4	July 2017	Web	v1: June 2011 (CD32) v2: July 2013 (Web) v3: Feb 2016 (Web)	Proposed June 2016 Accepted Sept 2016 New Project ISO 21766	SG Smokeless Tobacco [‡] SG Tobacco and Tobacco Products Analytes
N° 73	<i>Determination of Ammonia in Tobacco by Ion Chromatographic Analysis</i>	1	May 2011	CD 32	<i>Superseded by CRM79 - Sept 2015</i>		<i>SG Routine Analytical Chemistry</i>
N° 74	Determination of Selected Carbonyls in Mainstream Cigarette Smoke by High Performance Liquid Chromatography (HPLC)	4	Feb 2018	Web	v1: Aug 2011 (Web) v2: Mar 2013 (Web) v3: July 2014 (Web)	Proposed Sept 2015 Accepted Dec 2015 New Project ISO 21160	SG Special Analytes [‡]
N° 75	Determination of Tobacco Specific Nitrosamines in Mainstream Cigarette Smoke by LC-MS/MS	2	July 2014	Web	v1: Jun 2012 (Web)	19290:2016	SG Special Analytes [‡]
N° 76	Determination of Moisture Content (Oven Volatiles) of Tobacco and Tobacco Products	2	July 2017	Web	v1: April 2014 (Web)		SG Smokeless Tobacco [‡] SG Tobacco and Tobacco Products Analytes
N° 77	Determination of Diffusion Capacity by Measurement of CO ₂ Transfer Rate Through Materials Used as Cigarette Papers and Cigarette Papers having an Oriented Zone of Reduced Diffusion Capacity	1	April 2014	Web			SG Physical Test Methods
N° 78	Determination of Selected Phenolic Compounds in Mainstream Cigarette Smoke by HPLC-FLD	1	July 2014	Web			SG Special Analytes [‡]
N° 79	Determination of Ammonia in Tobacco and Tobacco Products by Ion Chromatographic Analysis	1	April 2015	Web		Proposed Aug 2015 Accepted Nov 2015 New Project ISO 21045	SG Smokeless Tobacco [‡]
N° 80	Use of the Part-Filter Method for the Estimation of Smokers' Exposure to Nicotine and Nicotine-Free Dry Particulate Matter	1	Jan 2016	Web			SG Smoking Behaviour [‡]

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N° 81	Routine Analytical Machine for E-Cigarette Aerosol Generation and Collection - Definitions and Standard Conditions	1	June 2015	Web		Proposed April 2015 Accepted June 2015 New Project ISO 20768	TF E-Cigarettes [‡]
N° 82	Determination of Benzo[a]pyrene in Tobacco Products by GC-MS	3	July 2017	Web	v1: March 2016 (Web) v2: June 2016 (Web)		SG Smokeless Tobacco [‡] SG Tobacco and Tobacco Products Analytes
N° 83	Determination of Ammonia in Mainstream Cigarette Smoke by Ion Chromatography	2	May 2017	Web	v1: July 2016 (Web)		SG Special Analytes [‡]
N° 84	Determination of Glycerin, Propylene Glycol, Water, and Nicotine in the Aerosol of E-Cigarettes by Gas Chromatographic Analysis	2	June 2017	Web	v1: Mar 2017 (Web)		SG E-Vapour
N° 85	Tobacco - Determination of the Content of Total alkaloids as Nicotine - Continuous-Flow Analysis Method using KSCN/DCIC	1	April 2017	Web		Proposed April 2017 Accepted Dec 2017 New Project ISO 22980	SG Routine Analytical Chemistry
N° 86	Determination of Select Carbonyls in Tobacco and Tobacco Products by UHPLC-MS/MS	1	Jan 2018	Web			SG Tobacco and Tobacco Products Analytes

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