

RECOMMENDED CONSUMABLES

for Dioxins Analysis using EPA 1613

This document serves as a quick reference guide for the products called out in sections 6 & 7 of **EPA Method 1613**.

For additional information, view our *Dioxin and PCB Analysis* brochure.*

*Note: To view or download the brochure, you'll be required to accept the Privacy Policy.

For a complete list of Chromatograms, visit sigmaaldrich.com.

For product-related questions, reach out to your MilliporeSigma account manager; they will connect you with our environmental testing experts!

Sample Collection

Paragraph	Description	Cat No.
6.1.1.1	Wide mouth, amber glass 1.25L sample bottle	DWKW217931
6.1.1.2	Wide mouth, amber glass 0.5L sample bottle	DWKW216958

Solvents & Reagents

Paragraph	Description	Cat No.
6.1.1.5	Alconox, packets	Z273228
6.1.1.5	Alconox, bulk	242985
	Reagent Water for gas chromatography SupraSolv®	1.02699
7.1.1	Potassium Hydroxide, reagent grade	484016
7.1.1	Potassium Hydroxide, free-flowing, Redi-Dri™, reagent grade	909122
7.1.2	Sulfuric acid - reagent grade	Various
7.1.3	Hydrochloric acid - reagent grade, 6N	Various
7.1.4	Sodium chloride	S9888
7.2.1	Sodium sulfate, anhydrous, free-flowing, Redi-Dri™	746363
7.2.1	Methylene chloride	Various
7.3.1	Acetone	Various
7.3.1	Toluene	Various
7.3.1	Cyclohexane	Various
7.3.1	Hexane	Various
7.3.1	Methanol	Various
7.3.1	Nonane	Various
7.3.2	Sand, 50-70 mesh	274739
7.5.1	Silica Gel	21342-U
7.5.1	2% KOH Coated Silica Gel	21318-U
7.5.1	22% H2SO4 Coated Silica Gel	21341-U
7.5.1	44% H2SO4 Coated Silica Gel	21334-U
7.5.1	10% AgNO3 Coated Silica Gel	21319-U
7.5.2.1	Acid Alumina	199966
7.5.2.2	Basic Alumina	199443
7.5.3.1	Carbopak C	10258

Solvents & Reagents (continued)

Paragraph	Description	Cat No.
7.5.3.2	Celite 545	20199-U
7.5.5	Pre-Activated Florisil® 1.5 g	48924-U-1.5G
7.5.5	Pre-Activated Florisil® 1 g	48924-U-1G

Sample Preparation

Paragraph	Description	Cat No.
	Dioxin Sample Preparation Kit	28423-U
	Multi-Layer Silica Gel Dioxin Column O.D. 6.35 mm × length 35 cm	28397-U
	Dual-Layer Carbon Reversible Tube (Micro-Column), O.D. 6.35/10 mm	28399-U
6.3.6	Balance	Various
6.4.1.1	pH meter	Various
6.4.1.2	pH paper 0 -14	1.09535
6.4.1.3	1L graduated cylinder	Z327476
6.4.1.4	Liquid/liquid extraction - separatory funnels	Various
6.4.1.5.1	90 mm Filter Assemblies	Various
6.4.1.5.1	47 mm Filter Assemblies	Various
6.4.1.5.3	90 mm glass fiber filter 1 micron pore size	AP1509000
6.4.1.5.3	47 mm glass fiber filter 1 micron pore size	APFB04700
6.4.1.5.4	90 mm ENVI™-18 DSK SPE Disk	57170-U
6.4.1.5.4	47 mm ENVI™-18 DSK SPE Disk	57171
6.4.2.1	Soxhlet Extractor, 200 mL capacity, 50 mm ID	Z564796
6.4.2.1	Soxhlet extractor apparatus	64826
6.4.2.2	Cellulose Thimble - 43 x 123	64842
6.4.2.3	Moisture trap	Various
6.4.2.4	500 mL Heating Mantle	Z285269
6.4.3.1	500 mL clear wide-mouth bottle with PTFE lined lid	Z263257
6.4.3.2	125 mL clear narrow-mouth glass bottle with PTFE lid	Z263028
6.4.4	500 mL Beaker	Various
6.5.1	Pyrex glass wool	CLS3950
6.5.1	Supelco glass wool	1.04086
6.5.2	300 mL - 47mm filtration glass funnel	CLS33971300
6.5.4	Buchner Funnel	Various
6.5.7	Filtration Flasks	Various
6.7.3.1	2 mL disposable pasteur pipette	Z627992
6.7.3.2	10 mL serological pipette	Various
6.8.2.1	Kuderna-Danish concentrator tube 10 mL	SYNC291910
6.8.2.2	Kuderna-Danish evaporation flask 500 mL	SYNF984500
6.8.2.3	Snyder column, three-ball	64720-U

Standards & Reference Materials

For additional information and a list of Analytical Standards & Reference Materials, view our *Dioxin and PCB Analysis* brochure, pages 25–27.

Analysis

Paragraph	Description	Cat No.
6.8.4.1	2 mL Amber glass sample vial	DWKW224681
6.8.4.1	4 mL Amber glass sample vial	DWKW224682
6.8.4.2	0.3 mL glass sample vial	Various
6.9	SP®-2331 Capillary GC Column	Various
6.9	SPB®-Octyl Capillary GC Column	Various
6.9	SLB®-5ms Capillary GC Column	Various

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