

AAC's Analytical Capabilities



Analytical Parameter	Analytical Technique	Agency Method Reference
Volatile Organic Compounds	GC/MS (SIM or SCAN)	EPA TO-14
		EPA TO-15
C ₂ – C ₁₂ Hydrocarbons (Ozone precursors PAMS List)	GC/FID/MS	EPA PAMS
Siloxanes (Digester gas/Biogas)	GC/MS	EPA TO-15M
Gaseous Organic Compounds	GC/FID	EPA 18
Fixed Gases (% level) (CO, CO ₂ , CH ₄ , O ₂ , N ₂ , H ₂ Ar)	GC/TCD	EPA 3C
Fixed Gases / Method 18	GC/FID/TCD	ASTM D1945
		ASTM D1946
Low Level CO ₂ /CO	GC/FID/TCA	EPA 10B
Landfill Gas / BTU / F-factor	GC/FID/TCD/SCD	ASTM D3588
	GC/MS (SIM or SCAN)	AP-42, Rule 1150.1
BTEX	GC/FID/MS	EPA 18
		EPA TO-14/TO-15
Total Reduced Sulfur Compounds	GC/SCD	ASTM D5504
		SCAQMD 307.91
		EPA 16M
Total Non-Methane Hydrocarbons	GC/FID/TCA	EPA 25
Total Non-Methane Non-Ethane Organic Compounds	GC/FID/TCA/TOC	SCAQMD 25.3
		SCAQMD 25.1
Total Non-Methane Hydrocarbons (Landfill gas)	GC/FID/TCA	EPA 25C
Total Non-Methane Hydrocarbons or VOC Content (Waste Streams)	GC/FID	EPA 25D
		EPA 305
VOC and Water Content of Solvent Waste	GC/FID, Gravimetric	EPA 24
Dissolved Gases (i.e. CH ₄ , C ₂ H ₄ , C ₂ H ₆ in H ₂ O)	GC/FID	EPA RSK-175
Total Organic Carbon	TOC	EPA 415.1
Methanol, C1 to C6 Alcohols	GC/FID	EPA 308
Ethanol	GC-FID	BAAQMD 29
Methanol, Acetone, Acetaldehyde, Methyl Ethyl Ketone, Formaldehyde, Phenol	GC/FID	NCASI 94.02
		NCASI 98.01
Acetaldehyde, Acrolein, Formaldehyde, Methanol, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Phenol, Propionaldehyde, VOC's	GC/FID/MS	NCASI 99.02
Methanol, Phenol, Formaldehyde, Acetaldehyde, Propionaldehyde, Acrolein	GC/FID/NPD	NCASI 105.01

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Biacetyl	GC-FID	OSHA PV-2118
Propylene Glycol	GC-FID	OSHA PV-2051
Aldehydes, Ketones	HPLC/UV	EPA TO-11A
		EPA TO-5
Formaldehyde, Acetaldehyde	HPLC/UV	CARB 430
Formaldehyde, Acetaldehyde, Acrolein	HPLC/UV	CARB 430M
Formaldehyde, Acetaldehyde, Acetophenone, Isophorone, Propionaldehyde	HPLC/UV	EPA 0011
Formaldehyde	Colorimetric	EPA 316/EPA 323
Phenol, Cresols	HPLC/UV	EPA TO-8
Phosgene	HPLC/UV	TO-6
PAH's	HPLC/UV	EPA TO-13/ NIOSH 5506
Amines Primary and Secondary	HPLC/UV	EPA CTM-027M
Isocyanates (TDI, MDI, HDI)	HPLC/UV	OSHA 42
Hydrogen Halides (HCl, HBr, HF)/ Halogens (Cl ₂ , Br ₂)	IC	EPA 26/26A
Inorganic Acids/Anions (F ⁻ , Cl ⁻ , Br ⁻ , SO ₄ ²⁻ , NO ₃ ⁻ , PO ₄ ³⁻)	IC	NIOSH 7903
Anions (F ⁻ , Cl ⁻)	IC	CARB 421
Ammonia	IC	EPA CTM-027/ SCAQMD 207.1M/ OSHA ID-188
Cations (Na, K, Li, Mg, Ca, NH ₄) and Amines (TMA, TEA)	IC	EPA CTM-027M
Alkaline Dusts (Na, K, Li and Basic Salts)	Acid Base Titration	NIOSH 7401
Sulfur Dioxide	IC	OSHA ID-200
Sulfur Dioxide	Barium-Thorin Titration/IC	EPA 6
Sulfuric Acid and Sulfur Dioxide	Barium-Thorin Titration/IC	EPA 8
NO and NO ₂	Colorimetric	NIOSH 6014
Nitrogen Oxides	IC	EPA 7D
Acetic Acid	IC	OSHA PV-2119
Organic Acids (i.e. Formic, Acetic, Propionic, etc.)	IC or GC/FID	
Hydrazine	Colorimetric	NIOSH 3503
Hydrogen Cyanide	Colorimetric	NIOSH 6010/ CARB 426
VOC's for Solvent-Based Coatings, Inks and Other Related Products	GC/FID	BAAQMD 22
		BAAQMD 41
Blowing Agents	GC/FID	ASTM D-7132
		BAAQMD 45
		SCAQMD 306-91

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Particulate Matter Stack	Gravimetric, IC	EPA 201A/202 EPA 5, 5E, 5F, CARB 5
Particulate Matter Ambient	Gravimetric Hi-Vol	PM 10/TSP
% Media Depletion of Activated Carbon	pH/Colorimetric	ASTM D3838 / % Media Depletion
Formaldehyde Passive Samplers	HPLC	OSHA 1007
Ammonia Passive Samplers	IC	OSHA ID-188M
NO2 and SO2 Passive Samplers	IC	OSHA ID-182M/ID- 200M
Amines Passive Samplers	HPLC	OSHA 60M etc
Specialty Projects, Analytes or any Research Work	Please call	Please call

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