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Appendix A. Analytical Methods for PAH Determination

<u>PAH Source</u>	<u>Method of Separation and/or Analysis</u>	<u>Reference</u>
Airborne particulates (general environment)	Column chromatography; computerized gas chromatography/mass spectrometry	Lao et al., 1975
Airborne particulates (general environment)	Single gas chromatographic column	Lane et al., 1973
Airborne particulates (general environment)	High-resolution liquid chromatography; column gas chromatography; ultraviolet and fluorescence spectroscopy	Novotny et al., 1974
Petroleum pitch volatiles	Gas chromatography; ultraviolet absorption spectroscopy	Greinke and Lewis, 1975
	Gas-liquid chromatography; gas chromatography/mass spectrometry	Janini et al., 1976
40 Airborne particulates (general environment)	Ultraviolet spectroscopy	Dubois et al., 1972
Tars	Gradient adsorption elution chromatography; ultraviolet spectroscopy	Dolansky et al., 1972
Tars and petroleum	Ion exchange, gel permeation, and thin layer chromatography; fluorescence spectrometry	Popl et al., 1974
Coal tar pitch	Fluorescence spectrometry	Matsushita & Arashidani, 1976
Tobacco and marijuana smoke condensates	Gas chromatography/mass spectrometry; nuclear magnetic resonance spectrometry	Lee et al., 1976
Airborne particulates (general environment)	Thin layer chromatography; high pressure liquid chromatography	Dong and Locke, 1976

Appendix A. Analytical Methods for PAH Determination (Cont'd)

<u>PAH Source</u>	<u>Method of Separation and/or Analysis</u>	<u>Reference</u>
Petroleum distillates	Ion exchange and adsorption chromatography; mass spectrometry	Jewell et al., 1972
Petroleum distillates	Ion exchange, gel permeation and thin layer chromatography; fluorescence spectroscopy	McKay and Latham, 1973
Airborne particulates (general atmosphere)	Gas chromatography/mass spectrometry with computerized data acquisition	Cautreels and Van Cauwenberghe, 1976
Lubricating oils	Gas chromatography	Grimmer and Bohnke, 1976
White petroleum products	Adsorption, gradient elution, and gel permeation chromatography; fluorescence and phosphorescence spectrometry	Popl et al., 1975
Airborne particulates (general environment)	Reversed-phase high pressure liquid chromatography; fluorescence spectroscopy	Rhys Williams and Slavin, 1976
Coal tar pitch volatiles	High-pressure liquid chromatography; ultraviolet spectrometry	Boden, 1976
Coal liquids	Matrix - isolation fluorometry	Stroupe et al., 1977

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