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Hydrocarbon Forensic Analyses

Please Call or Email for Pricing

These analyses can be combined into a package of tests that will answer most forensic questions. We encourage you to contact our experts, who can help select the optimal package for your project. They can also help structure the sampling program and provide pricing for the analytical package. Interpretive reports can be prepared that will characterize the hydrocarbon products and provide a rigorous scientific rationale for the forensic conclusions.

Matrix	Analysis
Product	<ul style="list-style-type: none"> • C₃-C₄₄ Hydrocarbon and PIANO distribution by high resolution GC/FID (ASTM D3328) • Oxygenated Blending Agents - MtBE, DIPE, EtBE, tAME, tBA, ethanol (EPA 1625 Modified) • EDB, MMT, and Organic Lead Concentrations by GC/ECD • C₃-C₁₀ PIANO distribution by GC/MS • C₈+ Alkane distribution by high resolution GC/FID • C₈+ Hydrocarbon distribution by Full Scan GC/MS (ASTM D5739) • Simulated Distillation (ASTM D2887) • PAH concentrations (parent and alkylated) by GC/MS • Stable Isotope Ratios of Carbon and Hydrogen • Biomarker (steranes & terpanes) distributions
Aqueous & Soil	<ul style="list-style-type: none"> • Screening: TPH gasoline (EPA Method 8015)* TPH diesel (EPA Method 8015)* • C₃-C₁₀ PIANO concentrations by high resolution GC/MS • Oxygenated Blending Agents - MtBE, DIPE, EtBE, tAME, tBA by GC/MS • C₈+ Alkane distribution by high resolution GC/FID • C₈+ Hydrocarbon distribution by Full Scan GC/MS (ASTM D5739) • PAH concentrations (parent and alkylated) by GC/MS • Stable Isotope Ratios of Carbon and Hydrogen • Biomarker (steranes & terpanes) distributions
Gas (Fugitive Methane)	<ul style="list-style-type: none"> • Fixed gas and hydrocarbon concentrations • Carbon and hydrogen isotope ratios of methane • Carbon-14 content of methane* • Carbon isotope ratios of higher hydrocarbons and carbon dioxide • Methane concentrations in water by RSK175 • Extraction of dissolved gas in water
Other	<ul style="list-style-type: none"> • Other analyses may be performed by special request

* Subcontracted