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Volatile components that are known to be present in ignitable liquids were also identified, including toluene, C 2 -alkylbenzenes, and normal alkanes. An aromatic pattern consisting of toluene, C 2 -alkylbenzenes, and sometimes extending to the C 3 -alkylbenzenes or beyond was observed in 41% of the shirts in this study.

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The term “ignitable liquid” is a frequently used term in fire debris analysis, without being further defined. General definitions can be found in documents such as the NFPA® 921, “Guide for Fire and Explosion Investigations,” and the Globally Harmonized System of Classification and Labeling of Chemicals.

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Spontaneous combustion of Paper with white phosphorous.

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Identifying Ignitable Liquids In Fire
Description. Identifying Ignitable Liquids in Fire Debris: A Guideline for Forensic Experts discusses and illustrates the characteristics of different ignitable liquid products. This guideline builds on the minimum criteria of the ignitable liquid classes defined in the internationally accepted standard ASTM E1618 Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris Samples by Gas Chromatography-Mass Spectrometry.

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I smell burning: Identifying ignitable liquids in fire ...
Finally, to demonstrate the potential of their technique, they used it to analyze a particularly complex type of sample: debris from a fire. When analyzing such debris, analytical scientists are usually searching for signs that an ignitable liquid, often gasoline, was used to start the fire, indicating arson.
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Detection of fire accelerants is the process that a fire investigator uses to determine if fire accelerants were used at a fire scene. This process involves a combination of both field work and laboratory analysis by fire investigators and chemists. In order for a positive identification of a fire accelerant to occur both field work and laboratory analysis must take place. This is because when a fire accelerant is used only ignitable liquid residues remain at the scene. It is the chemist's job t

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