

Ignitable Liquid Classifications

Florida Division of Investigative & Forensic Services
Bureau of Forensic Services Laboratory
38 Academy Drive - Havana, Florida 32333 - (850) 539-2700

The conclusions in the Laboratory Report are based upon the ASTM E1618 document, may contain one or more of the following "Ignitable Liquid Classes", and are subdivided into **Light**, **Medium**, and **Heavy** which corresponds to the Carbon Number range of C₄-C₉, C₈-C₁₃, and C₉-C₂₀₊, respectfully.

"No Ignitable Liquid Determined" means either no ignitable liquid was detected or not enough of the required laboratory requirements for a positive determination were found.

<u>Ignitable Liquid Classes</u>	<u>Examples</u>
Gasoline	All brands, including Gasohols and E85
Petroleum Distillates	Cigarette Lighter Fluids, Camping Fuels, Charcoal Starters, Paint Thinners, Kerosenes, Diesel Fuel
Isoparaffinic Products	Charcoal Starters, Paint Thinners, Aviation Gas, Specialty Solvents
Aromatic Products	Paint and Varnish Removers, Fuel Additives, Automotive Parts Cleaners, Toluene and Xylene based products, Insecticide Vehicles, Industrial Solvents
Naphthenic-Paraffinic Products	Charcoal Starters, Lamp Oils, Insecticide Vehicles, Cyclohexane based solvents, Industrial Solvents
Normal-Alkane Products	Solvents containing Pentane, Hexane, or Heptane, Candle Oils
Oxygenated Solvents	Laquer Thinners, Fuel Additives, Surface Preparation Solvents, Solvents containing Alcohols or Ketones

The National Center for Forensic Science has created a website, (<http://ilrc.ucf.edu/index.php>), containing over **1,000** products which provides the ability to correlate Ignitable Liquid Classifications with real world examples