
TECHNICAL INFORMATION

Invisible Fuel Tracer Compound

Catalog No. 733UV

INTRODUCTION

No. 733UV Invisible Fuel Tracer Compound is a fluorescent dye for use in treating gasoline in order to prove theft or unlawful possession. This product will in no way harm vehicle fuel tanks, fuel lines, fuel injection or carburetion systems.

Most fossil fuels have a natural fluorescence due to the various additives used by the petroleum industry—different fuels produce slight variations in fluorescence. Therefore, it is essential that a control test be run prior to treating any motor fuel.

CAUTIONS

- Before using this kit, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at www.sirchie.com/support.
- Harmful or fatal if swallowed. Respiratory, skin and eye irritant. If contact made with skin, wash with soap and water; if contact made with eyes, flush with plenty of water for approximately 15 minutes—seek medical attention.



- Flammable! Do not use around heat, open flames or sparks—dispose of empty containers according to Local, State, and Federal regulations.

PROCEDURE

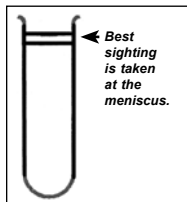
All tests should be conducted with a longwave ultraviolet light source such as the CUV100T UV Mini Light Source. Tests must be conducted in a totally dark room. DO NOT use any background material behind test vials as some materials such as paper products, produce their own fluorescence—this will interfere with the observations.

CONTROL TEST

Materials Needed:

- 2- Clean glass test tubes w/stoppers
- 1- Standard medical eyedropper
- 1- Longwave UV light source

1. Draw off enough fuel to be tested to fill 1/2 of a test tube.
2. Check the fuel in the test tube for fluorescence using the longwave UV light source. Typical reactions: *Leaded Gas—Blue Fluorescence; Unleaded Gas—Brilliant Blue Fluorescence*
3. Test the fuel suspected of being stolen as follows (*standard eyedropper):



Unleaded	Leaded	
1.50 oz.	0.75 oz.	per 500 gallons
0.30 oz.	0.15 oz.	per 100 gallons
20 drops*	10 drops*	per gallon

- a. Thoroughly mix the fuel/concentrate, then draw off half of a test tube full of the treated mixture.
 - b. Observe the sample side-by-side with the Control (untreated).
4. Leaded Fuel and Unleaded Fuel fluoresce a PALE YELLOW. This completes the Control Test.
 5. Retain these test samples for comparison with samples taken from the suspect's vehicle.

Observations in the field are simplified with the use of SIRCHIE's No. CUV100T UV Mini Light Source. It is totally portable, battery-operated longwave UV light source for use in crime scene search and forensic applications. Two AA Alkaline batteries power the unit and a clear plastic shield protects the 4-watt UV lamp. *NOTE: This shield should be removed when the unit is in use.*



Notes:
