

# InfraCal 2 ATR-SP TOG/TPH Analyzer

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## Applications

- Airport
- Oil in Water
- Industrial wastewater influent and effluent
- Petrochemical Industry
- Product Loss Control
- Field Use
- Environmental Monitoring
- Oil & Gas
- Wastewater Influent and Effluent
- Food and Dairy

## Simple, portable TOG/TPH testing for process control

The InfraCal Model ATR-SP is recommended for measuring oil in water, TPH in soil or FOG in wastewater concentration levels when using hexane as the extracting solvent. Measurement data obtained with this analyzer will correlate to EPA Method 1664 as both procedures are based on evaporation techniques and measuring the residual oil and grease. The analyzer is equipped with a built-in cubic zirconia horizontal attenuated total reflection (HATR) stainless steel sample stage.

### Time Savings

The InfraCal 2 runs tests in ~10 minutes; a fraction of the time compared to other methods, saving time, reducing costs, and increasing productivity.

### Less Solvent

The InfraCal 2 uses up to 90% less solvent per test, reducing costs and increasing safety.

### Convenient Package

The InfraCal 2's small size and light weight take up less space in the lab. The internal battery pack enables operators to take the instrument afield for on-site measurements.

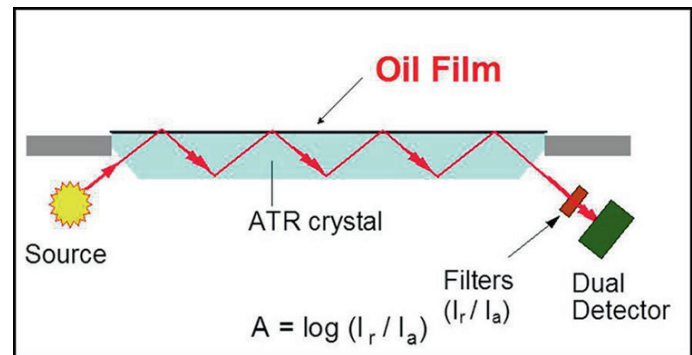
## Technical Data\*

Model	405-2034-8144	405-2034-72
Parameter	TOG/TPH	TOG/FOG
Measurement Method	Infrared	Infrared
Calibration	Includes a factory calibration using Hexane TOG/TPH Low & High Range Calibration Standards for samples containing primarily petroleum hydrocarbons.  Water: 0.5, 1, 2.5, 5.0, and 7.5 mg/L & 10, 25, 50, 100, 150, and 200 mg/L	Includes a factory calibration using Hexane TOG/FOG Calibration Standards for wastewater that contains animal and/or plant oils.  Water: 10, 25, 50, 100, 150, and 200 mg/L
Lower Limit of Detection (LOD)	Water: 0.3 ppm Soil: 3 ppm	
Electrical Specifications	Power supply Input: 100 - 250 VAC, 50/60 Hz Output: 18 VDC, 3.3 A max. Output Power: 60 W max. Internal 18 V battery pack	
Operating Conditions	5 - 40 °C (40 - 110 °F)	
Dimensions (H x W x D)	17 x 19.8 x 13.2 cm (6.7 x 7.8 x 5.2" )	
Weight	2.6 kg (5.8 lbs)	

\*Subject to change without notice.

## Principle of Operation

The InfraCal 2 Analyzers for measuring total oil and grease and total petroleum hydrocarbons in water and soil makes use of the fact that hydrocarbons such as oil and grease can be extracted from water or soil through the use of an appropriate solvent and extraction procedure. The extracted hydrocarbons absorb infrared energy at a specific wavelength and the amount of energy absorbed is proportional to the concentration of oil and grease in the solvent. The analyzer can be calibrated to read out directly in the desired units.



## Order Information

### Analyser

**405-2034-8144** InfraCal 2 ATR-SP TOG/TPH Analyzer

**405-2034-72** InfraCal 2 ATR-SP TOG/FOG Analyzer

### Accessories and Consumables

<b>2510253</b>	N-Hexane, ultra pure, 1 L
<b>1447849</b>	Hexanes, ACS, 500 mL
<b>1445949</b>	Isopropyl alcohol, 500 mL
<b>1445917</b>	Isopropyl alcohol, 4 L
<b>2664944</b>	Stearic acid, >98%, 25 g
<b>2664842</b>	Hexadecane, 99%, 100 mL
<b>709901</b>	Sodium sulfate, anhydrous, 454 g
<b>2990800</b>	Backpack for portable meters
<b>2088642</b>	Glass cylinder, graduated, mixing, 100 mL, tall form
<b>2636342</b>	Glass cylinder, graduated, mixing, 100 mL
<b>2665034</b>	Silica gel, 100-200 mesh, 500 g
<b>52656</b>	Filter paper, pore size 8-12 µm, diameter 110 mm, circular, pk/100
<b>2550502</b>	Gloves, disposable, medium

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