

Hydrogen Sulfide in Liquefied Petroleum (LP) Gases (Lead Acetate Method)



Test Method

For the detection of hydrogen sulfide in liquefied petroleum (LP) gases. The sensitivity of the test is about 4 mg/m³ (0.15 to 0.2 grain of hydrogen sulfide per 100 ft³) of gas.

Specifications

Conforms to the specifications of:

ASTM D2420, ISO 8819

Temperature Range: +5 to 150°C

Temperature Control Stability: ± 0.05°C

Temperature Readout Accuracy: ± 0.5°C

Bath Capacity: 28L (7.3gal)

LPG Cylinder Capacity: 500mL

Flow Meter Range: 2 – 3 L/min

Thermometer Range: -5 to +110°C

Electrical Requirements:

115V 60Hz

220-240V 50/60Hz

Included Accessories

KD2420 Glassware Kit

Comprised of:

- Glass Cylinder

- Rubber Stopper (2)

- Watch Glass

- Glass Rod / Hook

K27853 LPG Sampling Cylinder, 500mL

Dimensions lxdxh,in.(cm)

23.6x19.7x20.9 (60x50x53)

Net Weight: 42 lb (19kg)

Hydrogen Sulfide Apparatus

Vaporized LP gas is passed over moist lead acetate paper under controlled conditions. Hydrogen sulfide reacts with lead acetate to form lead sulfide which produces a coloration on the paper varying from yellow to black, depending upon the amount of hydrogen sulfide present.

Liquefied petroleum gases and their products of combustion must not be unduly corrosive to the materials with which they come in contact. The potential personnel exposure hazards of H₂S also make the detection and measurement of hydrogen sulfide important, even in low concentrations. In addition, in some cases the odor of the gases must not be objectionable.

Ordering Information

Catalog No.

K48200	Hydrogen Sulfide Apparatus, 115V 60Hz
K48290	Hydrogen Sulfide Apparatus, 220-240V 50/60Hz
K48200-1	LPG Flowmeter Assembly, Range 2 - 3 L/min
K48200-2	Lead Acetate Test Paper, 7mm Width, 5m Roll
250-000-15C	ASTM 15C Thermometer



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