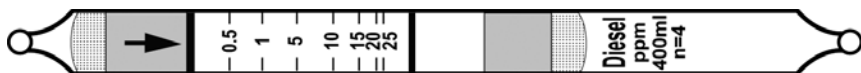


# Diesel & Jet Fuel

No. H-10-143-10



	Extended Range	Standard Range	Extended Range
Range (ppmv)	Do not extend	0.5 - 25	Do not extend
No. of Pump Strokes		4	
Sample Volume (mL)		400	
Sample Time (min)		4 x 1.5	
Correction Factor		1	

Precision (Relative Standard Deviation)\*:  $\leq \pm 20\%$  for undecane

Humidity: 0 - 95%RH

% RH	<5%	30%	50%	80%	95%
Corr. Factor	1.0	0.8	0.7	0.7	0.7

Temperature Range: 0 - 40°C (32 - 104°F)

Temp (°C/°F)	0/32	10/50	20/68	40/104
Corr. Factor	1.9	1.3	1.0	0.8

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Brown-green Ring (Over-Range: White → Pale Yellow)

Reaction Principle:  $C_nH_m + I_2O_5 + H_2S_2O_7 \rightarrow I_2 + \text{Oxidation Products}$

***Continued on next page***

# Diesel & Jet Fuel (continued) No. H-10-143-10

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*	Correction Factor
Undecane (C <sub>11</sub> H <sub>24</sub> )	25	25	1.0#
Diesel, whole (Automotive or Marine)	50	20	2.5
Diesel vapors	10	~20	~0.4
JP-5, whole (kerosene)	25	22	1.1
JP-8, whole (kerosene) †	10	11.5	0.87†
Gasoline, whole	25	10	2.5
CO <sub>2</sub>	10000	0	-
CO	10	10	1.0
CH <sub>4</sub>	25000	0	-
H <sub>2</sub> S	60	0	-
Butane	25	0	-
Propane	100	0	-
Hexane	25	0.5**	~50
Octane	5	10	0.5
Benzene	25	1**	~25
Toluene	25	0.5**	~50
Xylene	25	0.5	~50
Styrene	20	0.4	~50
Ethanol	2000	0	-
Isopropanol	200	0	-
Acetone	50	0	-

DATA SHEETS

\* Data based on Honeywell pumps and tubes used in standard range.

# Calibrated to undecane.

\*\* Very faint brown stain.

† Can use 1 stroke @ CF =7.2 or 2 strokes @ CF = 2.5.

Other Possible Interferences: No response to 50 ppm HCl, or 100 ppm SO<sub>2</sub>, NH<sub>3</sub>, or NO<sub>2</sub>.