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RAE-Sep Tube Data Sheet

Halocarbon (e.g., CH₂Cl₂)

No. 012-3022-005

Standard Lamp	Typical Range (ppmv)
11.7 eV	0.1 - 200

Color Change: Orange → Brown
The reading may be high if the tube is discolored to more than ¾ of its length.

Substance	Sample Time (sec)	Sample Volume (mL)
Methyl Chloride	30	180
Methylene Chloride	30	180
Chloroform	45	260
Carbon Tetrachloride	60	350

Storage Life and Conditions: Unopened tubes can be stored for 2 year in darkness at 0 - 40°C (32 - 104°F). Open tubes may be stored for up to 8 hours in clean air without significant loss of capacity.

Note: For more details on tube operation see Technical Note 133.

Cross-sensitivity:

Temperature Range: 2 - 40°C (41 - 104°F)

Temp (°C)	2-10	10-15	15-30	30-40
Temp (°F)	36-50	50-60	60-86	86-104
Measure Time (sec)	3x	2x	1x	0.67x

Substance	Test Conc. (ppmv)*	Apparent MC Response
Acetone	300	0.0
Ethanol	300	0.0
Ethyl acetate	300	0.0
Toluene	300	0.0
Methane	25000**	0.0
Isobutylene	500	0.1
n-Octane	200	0.0
Tetrahydrofuran	50	0.5

Calibration should be performed at the same temperature as the measurement.

Humidity: No effect on reading 0 - 95% RH. Humid, clean air drawn through the tube before measurement will reduce VOC capacity.

Storage Life and Conditions: Unopened tubes can be stored for 1 year in darkness at 5 - 25°C (40 - 77°F). Open tubes may be stored for up to 8 hours in clean air at 50% RH without significant loss of capacity.

*Not necessarily the maximum allowable concentration.

** Methane above 1% by volume reduces the PID response, but has no effect on tube capacity. Butane and higher hydrocarbons reduce tube capacity.

Caution: Dispose of spent or expired tubes according to local regulations. Each tube contains about 3 mg of chromium compounds. **Do not draw humid air through the tubes for extended periods or any liquid water, as corrosive liquids may damage the unit.**