

Information Data Sheet

Detector Tube **CS₂-2**
Part No. (US): **492514**
Part No. **D5085834**

1. Application

Detection of carbon disulfide (CS₂) in air or in technical gases.

2. Detector Tube Sampling Pump

UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester® IIH, Gas-Tester® I / ThumbPump™-Sampler, Toximeter® II, Uniphos Kwik-Draw™-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

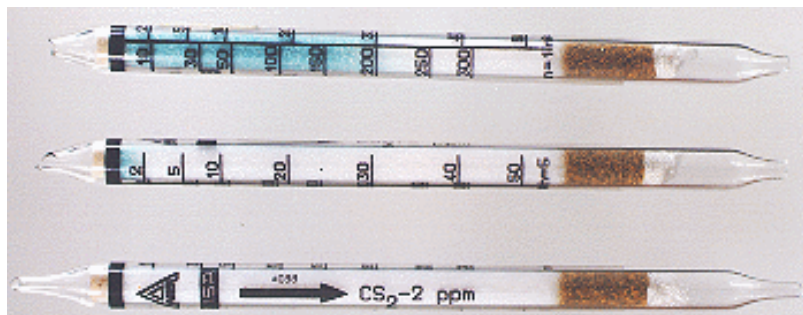
3. Measuring Range

10 ppm ... 300 ppm at n=1 (1 stroke).
2 ppm ... 50 ppm at n=5 (5 strokes).

4. Chemical Reaction and Color Change

Oxidation of carbon disulfide by iodine pentoxide in fuming sulfuric acid.

Color change: white → brown/green



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of reading between 0°C and 40°C (32°F and 104°F) and up to 90 % rh (46 g/m³ at 40 °C [104 °F]).

6. Interferences and Cross Sensitivities

- a) No interference from:
 - methane, carbon dioxide.
 - hydrogen, ethane, carbon tetrachloride, fluorinated methanes, fluorinated ethanes up to 5 vol. % (n=1) or 1 vol. % (n=5).
 - sulfur dioxide, nitrogen dioxide, chloromethane, dichloromethane, 1,2-dichloromethane up to 5000 ppm (n=1) or 1000 ppm (n=5).
- b) Higher saturated hydrocarbons (e.g. propanes, hexanes), olefinic hydrocarbons (e.g. ethylene), acetylene, aromatic hydrocarbons (e.g. benzene), carbonyl sulfide, hydrogen sulfide, carbon monoxide, easily oxidizable halogenated hydrocarbons (e.g. chloroform, trichloroethylene) and many other oxidizable gases and vapors will be indicated. The sensitivity of indication is different.

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