

Information Data Sheet



Detector Tube Ethyl Mercaptan -0,5

Part No. (US): 804589

Part No. D5086815

1. Application

Detection of ethyl mercaptan (ethanethiol, C_2H_5SH) 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 ... 100 ppm ethyl mercaptan at n = 1 (1 pump strokes).

0,5 ppm ... 5 ppm ethyl mercaptan at n = 15 (15 pump strokes).

4. Chemical Reaction and Color Change

Reaction of ethyl mercaptan with palladium salt.

Color change: white → yellow



5. Ambient Conditions During Sampling

Detector tubes can be used between 5 °C and 40 °C (41 °F and 104 °F) and between 10 % rh (0,7 g/m³ at 5 °C [41 °F]) and 90 % rh (46 g/m³ at 40 °C [104 °F]).

6. Interferences and Cross Sensitivities

a) No interference from:

- hydrogen, methane, ethane, propane, carbon dioxide.
- higher saturated hydrocarbons (e. g. butanes, hexanes), olefinic hydrocarbons (e. g. ethylene), aromatic hydrocarbons (e. g. benzene), carbon monoxide, thioethers (e. g. dimethyl sulfide, tetrahydrothiophene), carbon disulfide up to 1000 ppm (n=15).
- hydrogen sulfide up to 80 ppm (n=15). Hydrogen sulfide discolors the protective layer from white to brown. Do not use detector tube if protective layer has totally changed color.

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