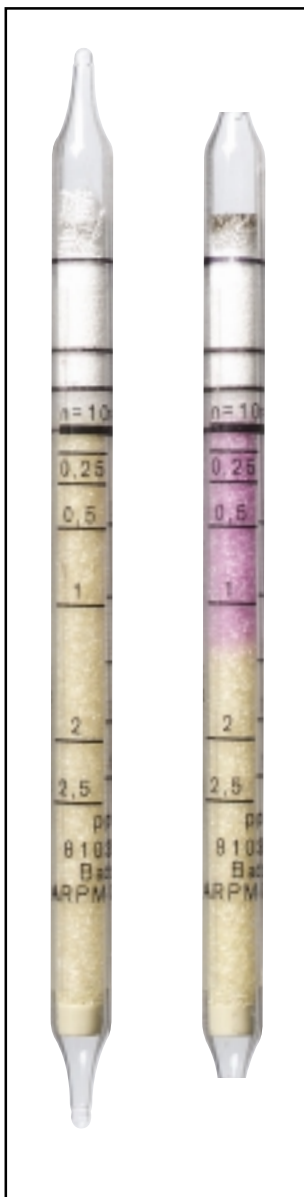


Mercaptan 0.1/a

Order No.

81 03281



Standard Measuring Range : 0.1 to 2.5 ppm / 3 to 15 ppm
Number of Strokes (n) : 10 / 2
Time for Measurement : app. 3 min / app. 40 s
Standard Deviation : ± 10 to 15 %
Colour Change : yellow \rightarrow red

Ambient Operating Conditions

Temperature : 5 to 40 °C
Absolute Humidity : 2 to 40 mg H₂O / L

Reaction Principle

$2 \text{R-SH} + \text{Hg Cl}_2 \rightarrow \text{Hg}(\text{CH}_3\text{S})_2 + 2 \text{HCl}$
 $\text{HCl} + \text{pH-indicator} \rightarrow \text{redish reaction product}$

Cross Sensitivity

Propylmercaptan and tert.-butyl-mercaptan are indicated but with different sensitivities.

4 ppm ethylene, 30 ppm CO, 10 ppm tetrahydrothiophene do not affect the indication. and 200 ppm hydrogen sulphide do not affect the indication.

Hydrogen sulphide changes the pre-layer to black.

ST-180-2001