

Org. Arsenic Compounds and Arsine

Order No. CH 26 303

Application Range

Standard Measuring Range:	Qualitative 0.1 ppm Arsine and 3 mg org. arsenic/m ³ are the minimum detectable concentrations.
Number of Strokes n:	8
Time for Measurement:	max. 3 min
Standard Deviation:	± 50 %
Color Change:	yellow → grey

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	< 50 mg H ₂ O / L

Reaction Principle

- a) $\text{AsR}_3 + \text{Zn/HCl} \rightarrow \text{AsH}_3$
 b) $\text{AsH}_3 + \text{Au/Hg-complex} \rightarrow \text{Au (colloidal)}$

Cross Sensitivity

Phosphine and arsine are indicated before the ampoule is broken, but with different sensitivities.

Additional Information

Arsine is present if a grey ring appears in the indicating layer after performing 8 pump strokes. If there is no indication, the ampoule must be broken and the liquid transferred onto the indicating layer such that it is completely saturated. Then an additional eight pump strokes must be performed.

