

Well Flow Management

Fluids Sampling and Analysis

Stain Tube Analysis – Gastec / Dräger

Stain tubes give the ability to quickly and easily perform a wide range of measurements with minimal equipment.

The presence of the analyte of interest in a gas sample generates a color change proportional to the analyte concentration.

Data from stain tube measurements compares favorably with other techniques.

Common measurements include:

- Hydrogen Sulfide (H₂S)
- Carbon Dioxide (CO₂)
- Mercaptans (R-SH)

Each tube has a specific chemistry which is designed to give selective measurement, however, it is important to understand the impact of the sample matrix and potential interfering species.

Many hundreds of tube variants exist, but their use should be reviewed for each application.



Data from stain tube measurements compared with UP 212 technique for measurement of H₂S in gas

Sample Reference	Hydrogen Sulphide gastec	(μL/L) (ppm v/v) UOP 212
Main Flow		
Sample 1	44	40
Sample 2	45	43
Sample 3	42	42
Sample 4	40	40
Sample 5	40	40
Sample 6	40	38
Sample 7	41	37
Sample 8	42	41
Sample 9	38	37
Sample 10	40	48