

Order No,
81 01441

Trichloroethylene 200/a-D

Standard Range	Measurement Time
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200	to	1,000	ppm	1 h
100	to	500	ppm	2 h
50	to	250	ppm	4 h
25	to	125	ppm	8 h

Standard Deviation : ± 20 to 25 %
Colour Change : white \rightarrow yellow orange

Ambient Operating Conditions

Temperature : 0 to 35 °C
Absolute Humidity : 5 to 12 mg H₂O / L

Reaction Principle

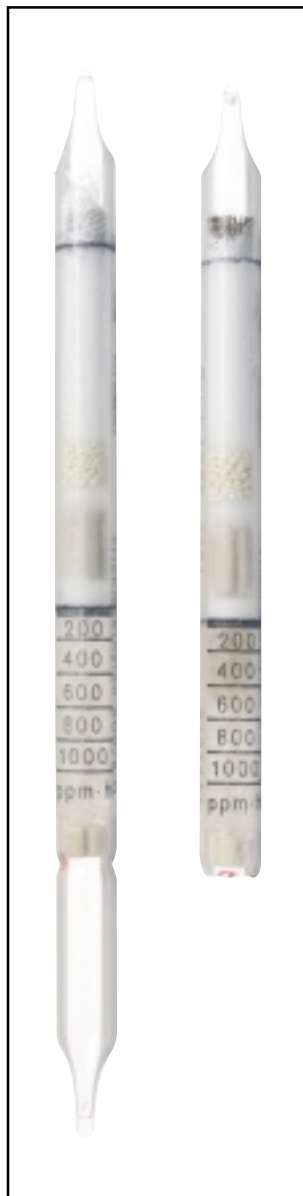
- a) $\text{HCIC=CCl}_2 + \text{Cr}^{\text{VI}} \rightarrow \text{Cl}_2$
b) $\text{Cl}_2 + o\text{-Tolidine} \rightarrow \text{yellow orange reaction product}$

Cross Sensitivity

Other chlorinated hydrocarbons are also indicated, but with different sensitivities.

Perchloroethylene is indicated with a slightly higher sensitivity and 1,1,1-trichloroethane with about twice the sensitivity (e.g. 200 ppm x h 1,1,1-trichloroethane gives an indication of 400 ppm x h).

Chlorine and nitrogen dioxide in dosages higher than 10 ppm x h also discolour the indicating layer.



ST-907/2001