

# Butadiene 10/a-D

Order No. 81 01 161

## Application Range

Standard Range	Measurement Time
10 to 300 ppm	1 h
5 to 150 ppm	2 h
2.5 to 75 ppm	4 h
1.3 to 40 ppm	8 h

Standard Deviation	± 20 to 25 %
Color Change	pink → light brown

## Ambient Operating Conditions

Temperature	20 to 25 °C
Absolute Humidity	1 to 15 mg H <sub>2</sub> O / L

## Reaction Principle

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + \text{KMnO}_4 \rightarrow \text{Mn}^{\text{IV}} +$  various oxidation products

## Cross Sensitivity

Other organic compounds with carbon - carbon double bonds are also indicated, for example:

Substance measured	Concentration present	Measuring period	Indication
Chloroprene	10 mL/m <sup>3</sup> (ppm)	5 hours approx.	50 ppm x h
Ethylene	10 mL/m <sup>3</sup> (ppm)	6 hours approx.	50 ppm x h (diffuse)



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