# A

# 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

 $H_2C=CH-CH=CH_2 + KMnO_4 \rightarrow Mn^{IV} + various oxidation products$ 

## 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/m³ (ppm)	5 hours approx.	50 ppm x
h			
Ethylene	10 mL/m³ (ppm)	6 hours approx.	50 ppm x
h			
			(diffuse)

