

# Application report light

## Colour (Hazen) of Methacrylic Acid

### Sigrist Product:

- ColorPlus Ex in-line

### 1. Industry:

- Chemical Industry

### 2. Typical application:

- The colour of methacrylic acid is measured as an optical control parameter of the manufacturing process.
- The product needs to be colourless; it is measured for quality control purposes.
- It is measured at 365 nm, absorption
- Typical measuring range 0 – 20 Hazen
- Temperature normally max. 100 °C
- FFPM seals
- Increased requirements of the instrument due to high concentration of dangerous cyanide within the process.

### 3. Utilisation:

- Methacrylic acid is utilised for manufacturing plastic dispersion, as wetting agents or thickeners e.g. for the manufacturing of dispersion paint.
- The esters of methacrylic acid are used for the manufacturing of plastics, e.g. plexiglass.

### 4. Additional information:

Methacrylic acid is a colourless liquid with an acrid unpleasant odour and is corrosive. Methacrylic acid dissolves well in water, alcohol and ether; the aqueous solution reacts strongly acidic. Its salts and esters are called methacrylates.

Partly the instruments are used in the ex-area.



ColorPlus Ex in-line with Varivent



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