

Application report light

Colour [Hazen] of Maleic Acid Anhydride

SIGRIST product

- ColorPlus 2 in-line
- ColorPlus Ex in-line

Industry

- Chemical/pharmaceutical industry, petrochemical industry/refineries

Typical application

- Measurement is carried out at the end of the discoloration process. The product must not have any discoloration.
- The colour of maleic acid anhydride is measured to monitor quality.
- Measurement at 390 nm (absorption).
- Layer 100 mm
- Optional turbidity compensation at 700 nm
- Measuring range 0–10 Hazen, typically 0–2 Hazen
- As a rule, heated measuring cell
- Sliding measuring cell
- For process-independent calibration

Use

- Maleic anhydride is mainly used for producing unsaturated polyester resins, coating materials and softening agents. It is also used as an intermediate product for pesticides and for the production of dyes, tanning agents or pharmaceuticals or as curing agents for epoxy resins.

Additional information

Maleic anhydride crystallizes at temperatures $<65^{\circ}\text{C}$; as a consequence the measurement is carried out in a heated cell. Maleic anhydride immediately reacts with water to form maleic acid. Owing to its versatile fields of application, the product should be as colourless as possible, which can be achieved by measuring colour.



ColorPlus 2 in-line on Varivent®



ColorPlus Ex in-line



photometer.com/Off7



photometer.com/56c4