

Application report light

Colour [Hazen] of Phthalic Acid Anhydride

SIGRIST product

- ColorPlus Ex in-line

Industry

- Chemical industry, petrochemical industry

Typical application

- Measurement is carried out at the end of the discoloration process. The product must not have any discoloration.
- The colour of phthalic acid anhydride is measured to monitor quality.
- Measurement at 390 nm or at 365 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

Use

Phthalic anhydride is mainly used as raw material for the production of softeners (phthalic acid ester) for plastics (in particular PVC). Smaller amounts are used as raw material for artificial resins or as components of surface coatings for wood. It is also a raw material for the production of colours or colour pigments on the basis of phthalocyanine.

Additional information

Phthalic anhydride crystallizes at temperatures $<131^{\circ}\text{C}$; as a consequence the measurement is carried out in a heated cell. Phthalic anhydride reacts with atmospheric humidity to form phthalic acid. Owing to its versatile fields of application, the product should be as colourless as possible, which can be achieved by measuring colour.



ColorPlus Ex with sliding measuring cell

