



a xylem brand

The Photometry Dictionary

TIPS AND TRICKS FOR PHOTOMETRIC MEASUREMENTS -
FROM OUR CUSTOMERS' MAGAZINE

WATERWORLD

Many Advantages for the Reagent Tests!

wtw.com/en/photometry

photometry-compendium.com

Many advantages for the reagent tests!

In addition to the known round cuvettes with a minimum of handling, there are the so-called reagent tests which offer a lot of advantages. They are an alternative for everyone who has a large test demand or changing usage conditions:

- With barcode and automatic cuvette detection
- Large measuring range by usability in 10, 20 and 50 mm cuvettes
- Automatic measuring range switching
- Large number of determinations and some larger package sizes
- Most favorable price alternative - with lot certificate and AQS support

Lowest concentration - measure even more accurately!

Illustrated on the example manganese in drinking water: Here, there is often a demand for very low measuring ranges, for example for the production of baby food. You can fully utilize the unbelievable accuracy in the lower range by simple measures during measurement:

- **Blind value:**
Even if the blind value is stored in the method data, you will be able to increase the accuracy a little higher yet with a blind value determination for each new lot. And: Determine the blind value in the same cuvette as the sample!
- **Clean cuvettes:**
Where necessary, the cuvettes should be cleaned, rinsed and used without "drip edges" as indicated in the package insert. This way, you will exclude deviations between the sample and blind values by glass and interference influences.
- **Cuvette alignment during the measuring process:**
Blind value and measuring samples should always be aligned the same with in the cuvette: there are arrows or markings on the cuvettes as an aid for this
- **Caution - trap:**
Watch for the correct measuring range and therefore the correct cuvette size beforehand in the package insert.

Measuring range and number of determinations for Manganese:

Cuvette mm	Measuring range mg/l Mn	Number of determinations
50	0,25 - 5,00	
20	0,50 - 10,00	500
10	0,010 - 2,000	