

**Decision rule for conformity assessments in the central laboratory of
Groz-Beckert KG, Parkweg 2, 72458 Albstadt**

According to the DIN EN ISO/IEC 17025:2018 standard, conformity assessment bodies are required to define decision rules that agree the statement on the conformity of the result with the customer. The decision rule applied must be documented.

This document specifies the decision rules in conformity statements of the central laboratory of Groz-Beckert KG and applies in addition to the general terms and conditions and the customer order.

1. If a decision rule is specified in the applicable standard or specification for a commissioned test, this is deemed to have been agreed with the customer without further regulations.
2. If the customer requires a different decision rule or wants their own requirements for the test result, this must be communicated in writing with the order request. The decision case (a to e) must also be specified in accordance with this document.
3. If the above points 1 and 2 are not applied, the following decision is generally made:

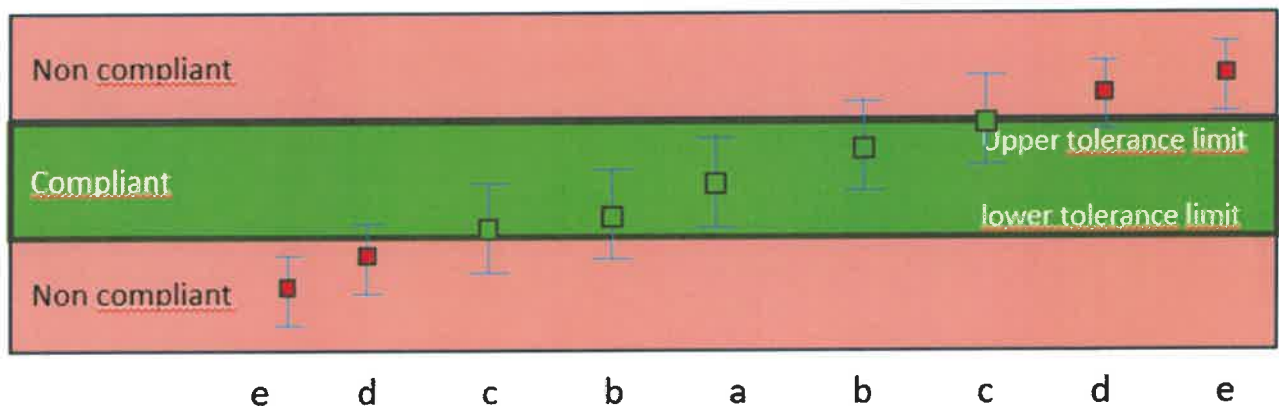


Figure 1: The specification consists of a lower and/or an upper tolerance limit.

- a. The measurement result and the expanded measurement uncertainty are within the specification range. **Sample is compliant.**
- b. The measurement result is within the specification range, the expanded measurement uncertainty could exceed the tolerance limits. **Sample is assessed as compliant.**
- c. The measurement result is within the specification limits, the expanded measurement uncertainty exceeds the tolerance limits. **Sample is assessed as compliant.**
- d. The measurement result is outside the tolerance limits, the expanded measurement uncertainty could still be within the tolerance limits. **Sample is assessed as non-compliant.**
- e. The measurement result and the expanded measurement uncertainty are outside the specification range. **Sample is non-compliant.**

4. If the measurement uncertainty is to be taken into account in the conformity statement, the customer must inform us of this when placing the order. In this case, individually coordinated decision rules can be applied. This is done against additional costs.

DECISION RULE:

If nothing else has been agreed with the customer, the measurement uncertainty is not to be taken into account in the conformity assessment. The sample is assessed as compliant if the measured value is smaller (upper tolerance limit) or larger (lower tolerance limit) or equal to the tolerance limit (cases a to c in Figure 1).

If the central laboratory of Groz-Beckert KG is commissioned to carry out a test without compliance with limit values or specifications, no conformity assessment is carried out. The standard measurement uncertainties can be specified at the customer's request.

The standard measurement uncertainties specified in the table are the maximum process uncertainties that occur. Possible inhomogeneities in customer samples are not taken into account. The expanded measurement uncertainty is specified, which results from the standard measurement uncertainty multiplied by the expansion factor $k=2$. The value of the measured quantity lies in the assigned value interval with a probability of 95%.