

Rejection Quotient at Different Confidence Limits

Number of Observations	Q ₉₀	Q ₉₅	Q ₉₉
3	0.941	0.970	0.994
4	0.765	0.829	0.926
5	0.642	0.710	0.821
6	0.560	0.625	0.740
7	0.507	0.568	0.680
8	0.468	0.526	0.634
9	0.437	0.493	0.598
10	0.412	0.466	0.568

$$Q = \frac{|gap|}{range}$$

If Q > Q_{table} then the outlier is discarded.

Christian, Gary D. *Analytical Chemistry*, 5th ed.; John Wiley & Sons: New York, 1994; p 44.

Percent Error

$$\text{Percent error} = \frac{\text{observed value} - \text{true value}}{\text{true value}} \times 100\%$$

Percent Yield

$$\text{Percent yield} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100\%$$