

Solution and Answer Guide

Solution and Answer Guide: Skoog et al., *Fundamentals of Analytical Chemistry*, 10e,
© 2022, 978-0-357-45039-0, Chapter 6: Sampling, Standardization, and Calibration

Chapter 6

- *6-1. A 0.005-g sample of a rock is to be analyzed, and iron is to be determined at the ppm level. Determine the type of analysis and type of constituent.

Answer:

The sample size is in the micro range and the analyte level is in the trace range. Hence, the analysis is a micro analysis of a trace constituent.

- 6-2. What is the object of the sampling step in an analysis?

Answer:

The objective of the sampling step is to produce a homogeneous laboratory sample of a few hundred grams or less having a composition that is identical to the average composition of the bulk of the material being sampled. Statistically, we try to obtain a mean value that is an unbiased estimate of the population mean and a variance that is an unbiased estimate of the population variance.

- *6-3. Describe the steps in a sampling operation.

Answer:

Step 1: Identify the population from which the sample is to be drawn.

Step 2: Collect the gross sample.

Step 3: Reduce the gross sample to a laboratory sample, which is a small quantity of homogeneous material.

- 6-4. What factors determine the mass of a gross sample?

Answer:

The gross sample mass is determined by (1) the uncertainty that can be tolerated between the composition of the gross sample and that of the whole, (2) the degree of heterogeneity of the whole, and (3) the level of particle size at which heterogeneity begins.

- *6-5. The following results were obtained for the determination of calcium in a NIST limestone sample: %CaO = 51.33, 51.22, 51.36, 51.21, and 51.44. Five gross samples were then obtained for a carload of limestone. The average percent CaO values for the gross samples were found to be 48.53, 50.75, 48.60, 48.67, and 50.29. Calculate the relative standard deviation associated with the sampling step.

*Answers and solutions are provided in the Student Solutions Manual for questions and problems marked with an asterisk.

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Richard K. Gardner, Phyllis Grumm



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