

**Analysis of an Unknown Chloride**ACCURACY:

1. mean chloride value is  $<\pm 4\%$  points from actual value..... -0 point
2. mean chloride value is  $\pm 4-8\%$  points from actual value ..... -1 point
3. mean chloride value is  $>\pm 8\%$  points from actual value.....-2 points

PRECISION & TECHNIQUE

4. at least 3 trials that are within a range of  $\leq 4\%$  points .....-0 points
5. < 3 trials that are within a range of  $\leq 4\%$  points and/or range is  $> 4\%$  points ..... -1 point
6. NaCl solution not used during procedure (see generic grading guideline #9, below) ..... -1 point

**Generic Grading Guidelines:**

Each lab report is worth 10 pts (max.) and will be graded on the following basis:

A 10-point Lab Report will have the following attributes:

1. extra effort and high-level thought are evident throughout
  2. proper significant figures are used throughout
  3. proper units are used throughout
  4. calculations are shown
  5. calculated results are correct
  6. answers are correct (or at least reasonable); "unknowns" are correctly identified (2 points)
  7. unreasonable results are noted and an explanation is attempted
  8. conclusions logically follow from experimental results
  9. lab procedures have been followed exactly
  10. written answers are detailed and thorough; complete sentences are used; work is legible
  11. student name, course number, section number, date, etc. is included on each page
  12. report is turned in on either original lab manual pages (cut or torn neatly from the book) OR photocopied pages from the manual
  13. only the pages that are clearly meant to be included are included with the final report; introductory text is NOT included with the final report
- In general, 1 point will be deducted from the 10 points for each error or omission listed above.
  - A complete lab report, no matter how many errors, will be assigned a minimum of 6 points.
  - Zero points will be assigned to laboratory reports that are substantially incomplete.
  - Students who arrive late to their scheduled lab meeting will have the following points deducted from that week's lab report: 1st offense = -0 points, 2nd offense = -1 point, 3rd offense = -2 points...