

Method Abstract #121

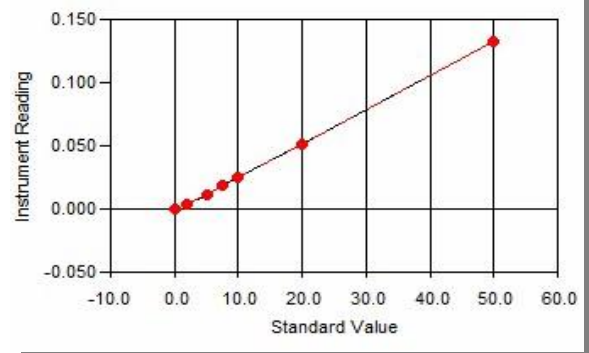
Color

Scope and Application This method conforms to Standard Method 2120 C and EPA Method 110.2. It determines the color units (CU) where 1 CU equals 1ppm of platinum. Color is used as a general indicator of the quality of water.

Method Summary This method employs an industry leading spectrophotometer completely controlled by the Man-Tech software including automated calibrations and audit trail. In general, 410nm is the selected wavelength; however, additional wavelengths may be used such as 455, 410 and 440 all while the sample is in the cuvette.

Sample Calibration Curve

Standard	Absorbance
0 CU	0.000
2 CU	0.004
5 CU	0.012
7.5 CU	0.019
10 CU	0.025
20 CU	0.052
50 CU	0.133



Method Performance

Parameter	Specification
Measuring Range	0.10 – 500 CU
MDL*	1.00 CU
RSD @ 2 CU	5.72% or +/- 0.11 CU
RSD @ 5 CU	1.70% or +/- 0.08 CU
RSD @ 10 CU	1.04% or +/- 0.10 CU
RSD @ 50 CU	0.47% or +/- 0.24 CU
RSD @ 100 CU	0.19% or +/- 0.19 CU

*The Method Detection Limit (MDL) was determined based on data obtaining a coefficient of variance better than 30%. Results may differ depending on laboratory practices and sample matrix