

Method Abstract #74

Oxidation-Reduction Potential

Scope and Application This method conforms to Standard Method 2580 and ASTM D 1498. It determines the redox potential of a sample.

Method Summary The redox potential of the sample is determined directly using a redox electrode. No calibration is necessary.

Method Performance

Parameter	Specification
Measuring Range	0 – 2V
RSD for Light’s solution (475mV)*	0.006% or +/- 0.03mV
RSD for ORP Standard (220mV)**	0.106% or +/- 0.23mV

*Light’s solution was prepared in the laboratory and is formulated from ferrous ammonium sulfate, ferric ammonium sulfate and sulfuric acid.

**This ORP standard is commercially available and was purchased for testing

RSD values are better than those specified in Standard Methods.