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ChemScan[®] Method Summary #69 Potassium Permanganate in Water

Standard Permanganate Analysis

Potassium Permanganate is a strong oxidant used for a variety of applications in water treatment including oxidation of organics and metals and for control of zebra mussels.

Standard analytical techniques for on-line analysis use an amperometric probe which may not provide reliable results in the presence of natural organic matter and other high molecular weight organics.

ChemScan Analytical Method

Potassium permanganate has a strong absorbance signature in the ultraviolet and visible wavelength range. The ChemScan Process Analyzer can directly detect and identify the contribution made by permanganate to the overall absorbance signature for a sample. Because a full spectrum analysis is performed across the ultraviolet and into the blue visible wavelength range, the ChemScan method can compensate for the presence of organic constituents and the effects of interference from inorganic constituents and turbidity in the sample.