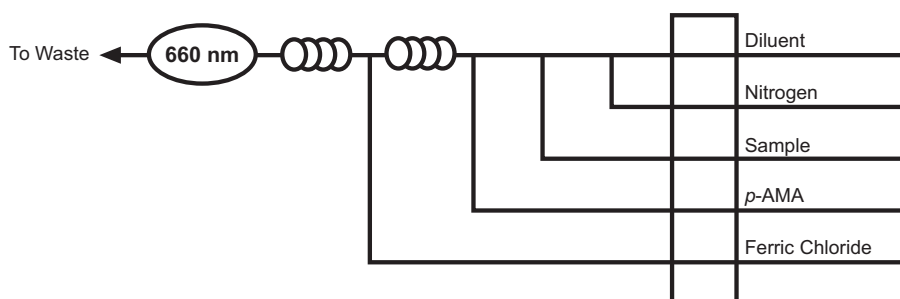


<b>Summary:</b>	Sulfide reacts with <i>p</i> -aminodimethylaniline ( <i>p</i> -AMA) and ferric chloride to form methylene blue. The absorbance is measured at 660 nm. This method does not detect acid insoluble sulfides.	
<b>Interferences:</b>	Strong reducing agents, such as thiosulfate at concentrations above 10 mg/L, inhibit color formation. Samples with background absorbance at the analytical wavelength may interfere. Filter or centrifuge turbid samples prior to analysis.	
<b>Performance Specifications:</b>	Range:	0.20–20 mg/L
	Throughput:	40 samples/hour
	Precision:	
	2.0 mg/L	<2% RSD
	8.0 mg/L	<1% RSD
	Method Detection Limit (MDL):	0.04 mg/L
<b>Chemicals:</b>	<p><i>p</i>-Aminodimethylaniline (<i>N,N</i>-Dimethyl-1,3-Phenylenediamine Dihydrochloride), <math>C_8H_{12}N_2 \cdot 2HCl</math>            Brij<sup>®</sup>-35, 30% w/v            (OI Analytical Part #A21-0110-33)            Cadmium Sulfate Tri(octahydrate), <math>3CdSO_4 \cdot 8H_2O</math>            Ferric Chloride Hexahydrate, <math>FeCl_3 \cdot 6H_2O</math>            Hydrochloric Acid, concentrated, HCl            Potassium Biiodate, <math>KH(IO_3)_2</math></p>	<p>Potassium Iodide, KI            Sodium Carboxymethylcellulose, <math>R_n-OCH_2COONa</math>            Sodium Hydroxide, NaOH            Sodium Sulfide Nonahydrate, <math>Na_2S \cdot 9H_2O</math>            Sodium Thiosulfate Pentahydrate, <math>Na_2S_2O_3 \cdot 5H_2O</math>            Starch Indicator, 0.5% solution            Sulfuric Acid, concentrated, <math>H_2SO_4</math>            Zinc Acetate Dihydrate, <math>Zn(CH_3CO_2)_2 \cdot 2H_2O</math></p>

**Basic Flow Diagram:**

**Selected References:**

*Methods for Chemical Analysis of Water and Wastewater*; EPA-600/4-79-020; U.S. Environmental Protection Agency, Office of Research and Development, Environmental Monitoring and Support Laboratory: Cincinnati, OH, 1984; Method 376.2.

*Standard Methods for the Examination of Water and Wastewater*, 20th ed.; American Public Health Association: Washington, D.C., 1998.

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