

Persulfate

Method

Persulfate is a strong oxidizer that is commonly used for clarifying swimming pools and spas and for the destruction of a broad range of soil and groundwater contaminants. Sodium persulfate is frequently used for environmental applications.

The Ferric Thiocyanate Method

Reference: D.F. Boltz and J.A. Howell, eds. **Colorimetric Determination of Nonmetals, 2nd Ed., Vol. 8, p. 304 (1978).**

CHEMetrics' persulfate test kit employs the ferric thiocyanate method. In an acidic solution, persulfate oxidizes ferrous iron. The resulting ferric ion reacts with ammonium thiocyanate to form ferric thiocyanate, a red-orange colored complex, in direct proportion to the persulfate concentration. Chlorine does not interfere with this chemistry. Ferric iron, hydrogen peroxide, and ozone will interfere. Results are expressed in ppm (mg/L) sodium persulfate ($\text{Na}_2\text{S}_2\text{O}_8$).

Visual Kit

Range: 0-5.6 & 7-70 ppm as $\text{Na}_2\text{S}_2\text{O}_8$
MDL: 0.35 ppm / Method: Ferric Thiocyanate

	Cat#
CHEMetrics Kit	K-7870
CHEMetrics Refill, 30 ampoules	R-7870
Low Range Comparator 0, 0.7, 1.4, 2.1, 2.8, 3.5, 4.2, 5.6 ppm	C-7807
High Range Comparator 7, 14, 21, 28, 35, 42, 49, 56, 70 ppm	C-7870
Kit comes in a plastic case and contains everything needed to perform 30 tests: Refill, Low and High Range Comparators, 25 mL sample cup and instructions.	

Components and Accessories

Description	Cat#
Sample Cup Pack, 25 mL (6 ea)	A-0013

Instructions and SDSs are posted on our website.

If no shelf life is listed for a product, then the shelf life is at least 1 year.



⚠ WARNING! This product can expose you to chemicals including methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.