

NAS/CWTC 016-82

Name: POTASSIUM PERMANGANATE

CAS No.: 7722-64-7

Formula Weight: 158.0

Chemical Formula: KMnO_4

Description:

A dark purple crystal with a blue metallic sheen, having a sweetish, astringent taste and no odor. It has a solubility in water of 5.0 g/100 ml at 20°C and is available at a commercial strength of 97-99% potassium permanganate.

Use:

Used as an oxidant for removal of iron or manganese and for treatment of taste and odor.

Purity Requirements:

The RMIC values are based on a maximum dosage of 10 mg of potassium permanganate/liter of water and are to be compared to impurity concentrations obtained by using sample procedures described in this monograph. If the actual dosage is other than 10 mg/liter, the user is cautioned to consult Table 2 for appropriate RMIC values.

<u>Impurity</u>	<u>RMIC mg Impurity/kg Potassium Permanganate</u>
Cadmium	100
Chromium	500
Mercury	20

Bulk Sample Collection:

Sample in accordance with Standard for Potassium Permanganate, AWWA B603-77, American Water Works Association, Denver, Colorado (1977).