

# POTASSIUM PERMANGANATE



CAS Number: 7722-64-7

Other Names: Potassium manganate(VII); Chameleon mineral;  
Condy's crystals; Permanganate of potash; Hypermangan

Formula:  $\text{KMnO}_4$

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## PRODUCT INTRODUCTION

Potassium permanganate is an inorganic chemical compound. It has the chemical formula  $\text{KMnO}_4$  and is a salt consisting of  $\text{K}^+$  and  $\text{MnO}_4^-$  ions. It is a strong oxidizing agent. It dissolves in water to give intensely pink or purple solutions. It is used as a medication for cleaning wounds and dermatitis.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder Form
Purity ( $\text{KMnO}_4$ )	98.48 %
Moisture ( $\text{H}_2\text{O}$ )	0.18 %
Chloride	0.03 %
Sulphate	0.15 %
Insoluble Matters	0.30 %

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## APPLICATION

- Potassium permanganate is used for a number of skin conditions. This includes fungal infections of the foot, impetigo, pemphigus, superficial wounds, dermatitis, and tropical ulcers.
- Potassium permanganate is used extensively in the water treatment industry. It is used as a regeneration chemical to remove iron and hydrogen sulfide.
- Aside from its use in water treatment, the other major application of  $\text{KMnO}_4$  is as a reagent for the synthesis of organic compounds.
- The permanganate delays the ripening, increasing the fruit's shelf life up to 4 weeks without the need for refrigeration.
- Potassium permanganate is typically included in survival kits: as a hypergolic fire starter when mixed with glycerol, water sterilizer, and for creating distress signals on snow.
- Potassium permanganate is one of the principle chemicals used in the film and television industries to "age" props and set dressings.

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## PACKAGING OPTIONS

Drums

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