Potassium Permanganate

1. IDENTIFICATION

CHEMICAL NAME: Potassium permanganate

CHEMICAL FORMULA: $KMnO_4$

CAS No.: 7722-64-7

EINECS No.: 231-760-3

ONU No.: 1490

2. FEATURES

Potassium permanganate is a solid free-flowing crystals formed by violet
The solutions are completely stable up to 3%. Agitation is recommended at least 20 minutes.

PROPERTIES	VALUE
KMnO4 (%)	≥ 97.5
Density (g/cm^3)	1.45 – 1.60
Humidity (%)	≤ 0.5
Water insoluble (%)	≤ 1
Distilled water solubility (g/l)	
10 º C	44
15 º C	53
20 C	63
Grain Size Distribution (%)	
> 0.42 mm (max)	20
< 0.1 mm (max)	15
< 0.075 mm (max)	7

PROPERTIES	VALUE	METHOD
Selenium (mg/kg)	≤ 50	AA
Antimony (mg/kg)	≤ 50	AA
Nickel (mg/kg)	≤ 50	AA
Chromium (mg/kg)	≤ 50	AA
Arsenic (mg/kg)	≤ 20	AA
Cadmium (mg/kg)	≤ 50	AA
Mercury (mg/kg)	≤10	AA
Lead (mg/kg)	≤50	AA

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3. APPLICATION

- Treatment of drinking water in the pre-oxidation.
- Treatment of urban waste water and industrial.
- Purification of gases.
- Decontamination of soils.

4. BENEFITS

- Elimination of iron and manganese.
- Elimination and control of algae growth.
- Elimination of sulphides in the wastewater and sludge.
- Increase of biogas production.
- Better conditions of dehydration of sludge.

5. PRESENTATION

The product is marketed in:

- In 25 kg plastic drums and big bags