

Caustic Potash (Potassium hydroxide) Manufacturing Industry, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and

Description:

Potassium hydroxide is an inorganic compound with the formula KOH, and is commonly called caustic potash.

Along with sodium hydroxide (NaOH), this colorless solid is a prototypical strong base. It has many industrial and niche applications, most of which exploit its corrosive nature and its reactivity toward acids. An estimated 700,000 to 800,000 tonnes were produced in 2005. Approximately 100 times more NaOH than KOH is produced annually. KOH is noteworthy as the precursor to most soft and liquid soaps as well as numerous potassium-containing chemicals.

Potassium Carbonate

Potassium carbonate (K_2CO_3) is a white salt, soluble in water (insoluble in ethanol) which forms a strongly alkaline solution. It can be made as the product of potassium hydroxide's absorbent reaction with carbon dioxide. It is deliquescent, often appearing a damp or wet solid. Potassium carbonate is used in the production of soap and glass.

Potassium Permanganate

Potassium permanganate is an inorganic chemical compound and medication. As a medication it is used for cleaning wounds and dermatitis.

It has the chemical formula $KMnO_4$ and is a salt consisting of K^+ and MnO_4^- ions. It is a strong oxidizing agent. It dissolves in water to give intensely pink or purple solutions, the evaporation of which leaves prismatic purplish-black glistening crystals. In 2000, worldwide production was estimated at 30,000 tonnes. In this compound, manganese is in the +7 oxidation state.

Dyestuff

Used in the production of anthraquinone, vat dyes like indanthrene golden orange, indanthrene red, indanthrene blue etc., indigoid dyes, rhodamine B and dye intermediates like J-acid, Chicago acid and diethyl m amino phenol.

Petroleum Refining

Petroleum refining processes are the chemical engineering processes and other facilities used in petroleum refineries (also referred to as oil refineries) to transform crude oil into useful products such as liquefied petroleum gas (LPG), gasoline or petrol, kerosene, jet fuel, diesel oil and fuel oils.

Potassium Formate

Potassium formate, HCO_2K (or $KHCOO$), is the potassium salt of formic acid. This white solid is an intermediate in the formate potash process for the production of potassium. Potassium formate has also been studied as a potential environmentally friendly deicing salt for use on roads.

Combination of caustic potash solution and formic acid results in the deicer potassium formate. Compared with other defrosting products, potassium formate is the more efficient solution on icy runways and also has better adhesive qualities. Moreover, chlorides are eliminated in the electrolytical production of caustic potash, meaning that this deicing agent is minimally corrosive, which is good for the aircraft.

For more details download PDF file.

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