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APPLICATION OF POTASSIUM FERRATE(VI) IN THE TREATMENT OF SELECTED WATER AND WASTEWATER POLLUTANTS – SHORT REVIEW

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Abstract

The paper presents the application of potassium ferrate(VI) (K_2FeO_4) for the removal of selected pollutants from water and wastewater. The research results on the degradation of endocrine disrupting compounds (EDCs), decomposition of surfactants (SPCs), personal care products (PCPs), pharmaceuticals and their metabolites have been reviewed. Due to K_2FeO_4 strong oxidizing and coagulating properties, high stability, non-toxic by-products and non-selectivity it is sometimes called “environmentally friendly oxidant”. Due to this reasons K_2FeO_4 can be a multi-purpose water and wastewater treatment chemical and an alternative to advanced oxidation processes (AOPs).

Keywords: Potassium ferrate(VI), K_2FeO_4 , EDCs, SPCs, PCPs, Pharmaceuticals.