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DEGRADATION OF ALCIAN BLUE 8 GX BY HETEROGENEOUS AND HOMOGENEOUS PHOTOCATALYTIC PROCESSES

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Abstract

The photocatalytic degradation of Alcian Blue 8 GX, a copper phthalocyanine cationic dye, has been investigated in aqueous solutions both in heterogeneous and homogeneous systems. Initial colour removal rates in different conditions were calculated in both cases. Influence of amounts of H_2O_2 and $FeCl_3$ was studied and compared for the two photocatalytic systems. Finally, some conclusions regarding the efficiency of the two photocatalytic processes were established.

Keywords: advanced oxidation processes, photo-Fenton type, TiO_2 photocatalysis

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