DEGRADASI SENYAWA RHODAMIN B SECARA SONOLISIS DENGAN PENAMBAHAN TiO\textsubscript{2} HASIL SINTESA MELALUI PROSES SOL-GEL

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ABSTRACT
Degradation of rhodamine B had been done by sonolysis method. Optimum temperature sonolysis were found of 41-50 °C. In this condition, rhodamine B 2 mg/L could be degraded around 64.04% during 6 hours sonolysis. Percentage degradation of rhodamine B enhanced by addition of TiO\textsubscript{2} in solution. TiO\textsubscript{2} was prepared with sol-gel process using titanium isopropoxide (TIP), isopropanol and dietanolamine (DEA) as precursor. It was heated on 500 °C and 700 °C in order to get TiO\textsubscript{2}-anatase dan TiO\textsubscript{2}-rutile. Rhodamine B 2 mg/L could be degraded around 68.48 and 90.00 % during 6 hours sonolysis on optimum temperature with addition of 0.1 g TiO\textsubscript{2}-rutile and TiO\textsubscript{2}-anatase, respectively.

Keyword: rhodamine B, sonolysis, sol-gel

DAFTAR PUSTAKA