

DEGRADATION OF TOLUENE VAPOR USING VACUUM ULTRAVIOLET: A WAY TO REDUCE AIR POLLUTION

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ABSTRACT

Vacuum ultraviolet is a simple way to destruct volatile organic compounds (VOCs). In this paper, we are experiment the concentration of toluene during 30 minutes open VUV lamp. Results indicate that the toluene removal efficiency is only 11 % in the VUV process. This process is depend on the influence concentration of toluene, the concentration of toluene increased, removal efficiency decreased and the concentration decreased, removal efficiency increased.

Keywords: *Toluene vapor, VUV radiation, Flow rate, Removal efficiency, Toluene concentration*