

**PENENTUAN VANADIUM SECARA SPEKTROFOTOMETRI  
FOSFOWOLFROVANADAT DALAM BATUAN BUKIT PIANGGU  
KABUPATEN SOLOK**

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**ABSTRACT**

A simple, rapid and accurate Spectrophotometric method described to the determination of vanadium in ore using sodium tungstat as a complexing agent. The method is based on the oxidation of sodium tungstat to form a yellow colored on reaction with vanadium (V), having maximum an absorption occurred at 403 nm. The relative standar deviation of the method for 8 mg/L vanadium ( $n=11$ ) was 0.24%, and the molar absorptivity is  $2.026 \times 10^3 \text{ L mol}^{-1}\text{cm}^{-1}$  and sensitivity Sandell is  $2.5 \times 10^{-2} \text{ mg cm}^{-2}$ . The recovery test is 99.47%. The effect of ion interfering Fe (element large amount in ore) on determination is describe. The general procedure which was developed is suitable for determination of 0-20 mg/L of Vanadium and should be applicable to variety of ore sample.

**Keywords :** vanadium, spectrophotometric, sodium tungstat, ore

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