

Supplementary information

Operando and in-situ Raman Studies of alumina-supported vanadium phosphate catalysts in propane ammoxidation reaction: Activity, selectivity and active phase formation

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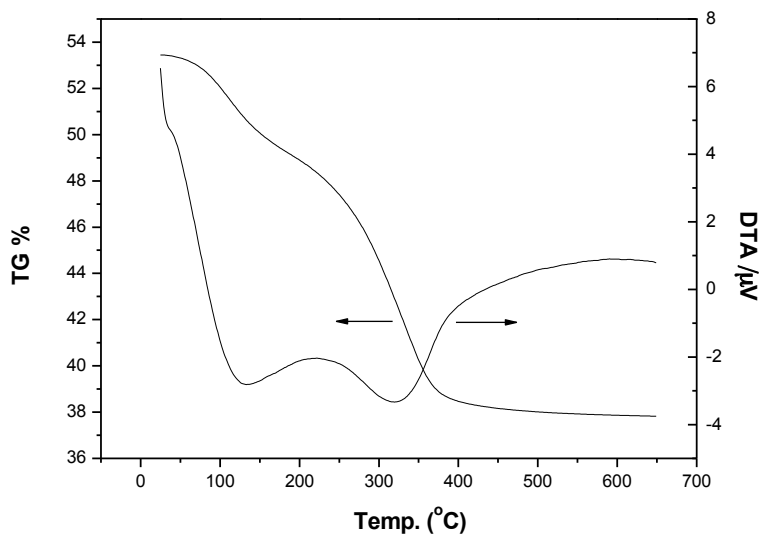


Figure S1 TG/DTG analysis of P8V8.8P/Al

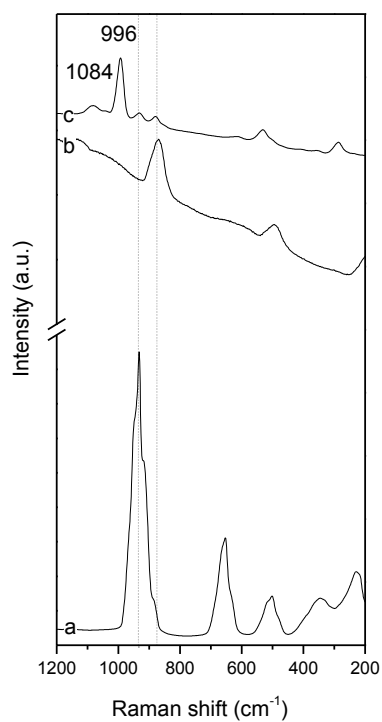


Figure S2 Raman spectra of a: NH_4VO_3 , b: $(\text{COOH})_2$, c: P8V8.8P/Al