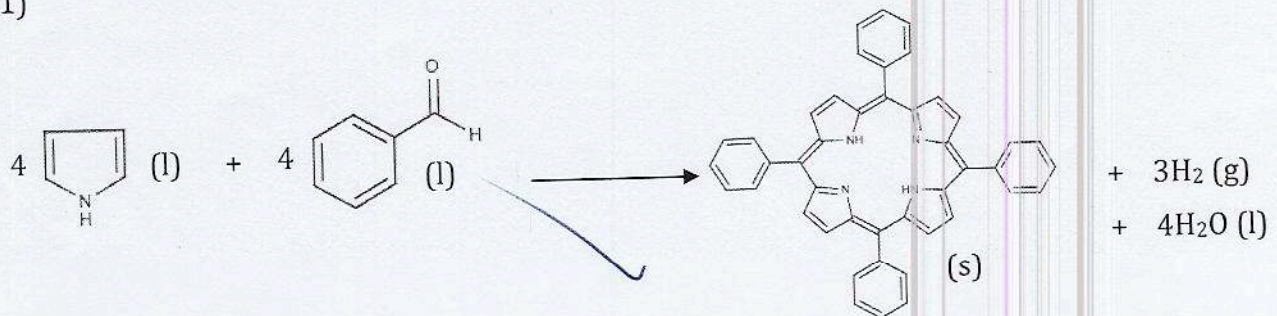


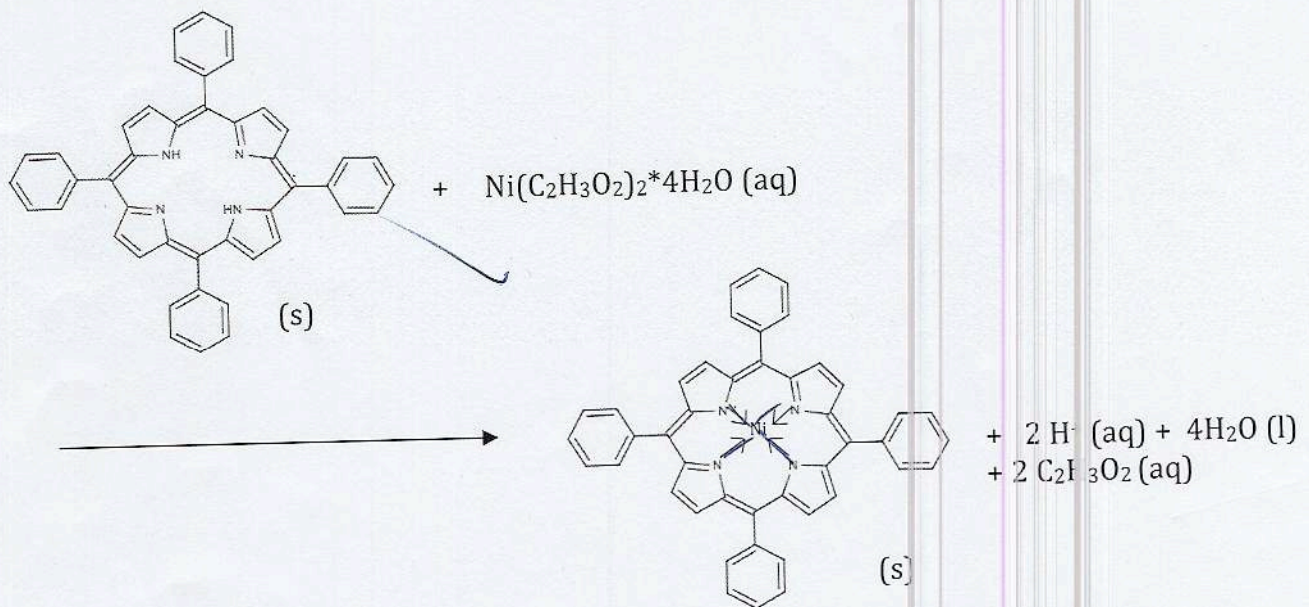
Synthesis and characterization of tetraphenylporphyrin and Ni(II)-tetraphenylporphyrin

Equations:

(1)



(2)



Experimental:

Synthesis of tetraphenylporphyrin

A 250mL round-bottomed flask containing 2.5mL pyrrole (0.036 mol), 3.6mL benzaldehyde (0.0356 mol), and 135mL of propionic acid was fitted with a reflux condenser and gently reflux condensed for 30 minutes. The flask and its contents were

the mixture was heated to

were added to