Answer on Question #47936, Chemistry, Other

<u>Task:</u>

How many grams of NH₃ are needed to react with 53.3 g of K₂PtCl₄?

Answer:

K₂PtCl₄+ NH₃= 2 KCl + Pt(NH₃)Cl₂ m

$$v = \frac{1}{M}$$

where m-mass, grams;

M-molar mass,gram/mol.

M(K₂PtCl₄)=415g/mol

M(NH₃)=17g/mol

 $v(K_2PtCl_4) = \frac{53,3}{415} = 0,128$ moles

 $v(K_2PtCl_4)=v(NH_3)=0,128$ moles

m (NH₃)= $v(NH_3)$ ·M(NH₃)

m (NH₃)=0.128·17=2,18 g