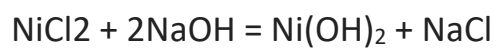


What is the maximum mass of Ni(OH)₂ that could be prepared by mixing two solutions that contain 26.0g of NiCl₂ and 10.0g NaOH, respectively?

Solution.



$$n(\text{NiCl}_2) = 0.2 \text{ mole}$$

$$n(\text{NaOH}) = 0.25 \text{ moles } (/2 = 0,125 \text{ moles - in deficiency)}$$

$$\Rightarrow n(\text{Ni(OH)}_2) = 0.125 \text{ mole}$$

$$m(\text{Ni(OH)}_2) = 0.125 * 93 = 11.63 \text{ g}$$

Answer. 11.63 g

Answer provided by www.AssignmentExpert.com