

If the solubility of acetanilide is 0.45g per 100 mL of water at 0°C and you filtered your solution at this temperature, you can calculate g of acetanilide by the next proportion

If 0.45 g of acetanilide dissolves in 100 ml

so x g of acetanilide dissolves in 19 ml

So we can calculate remaining acetanilide in solution

0.45 - 100 ml

x - 19 ml

$x = 0.45 * 19 / 100 = 0,0855$ g

So 0,085 g of acetanilide remaining in solution.