Answer on Question \#86135 - Chemistry - General Chemistry
Question:
How many milliliters of an aqueous solution of 0.126 M iron(II) nitrate is needed to obtain 16.3 grams of the salt?
$\qquad$ mL

## Solution:

M (Fe(NO3)2) $=180 \mathrm{~g} / \mathrm{mol}$;
$\mathrm{n}(\mathrm{Fe}(\mathrm{NO} 3) 2)=16.3 / 180=0.09 \mathrm{~mol} ;$
$c=n / V$;
$\mathrm{V}=\mathrm{n} / \mathrm{c}=0.09 / 0.126=0.7143=714.3 \mathrm{~mol}$.
Answer: 714.3 mol .

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