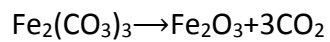# Question #75385, Chemistry / General Chemistry

How many grams of iron(III) carbonate decompose to give 47.8 mL of carbon dioxide gas at STP?

Solution

  x g   0.0487 L

$Fe_2(CO_3)_3 \longrightarrow Fe_2O_3 + 3CO_2$

  292 g $3 \cdot 22.4$ L

$x = 0.0487 \cdot 292 / 67.2 = 0.21$ g

Answer

  0.21 g

Answer provided by AssignmentExpert.com