$$4.54 \times 10^4 \text{ g Dx} \times \frac{1 \text{ mol Dx}}{342 \text{ g Dx}} \times \frac{12 \text{ mol } O_2}{1 \text{ mol Dx}} \times \frac{3.20 \times 10^4 \text{ mg } O_2}{1 \text{ mol } O_2} \times \frac{1 \text{ L}}{8.32 \text{ mg } O_2} = 6.13 \times 10^6 \text{ L}$$