

Answers to problems 54- in page 332.

Mixed Review

54. a. 1.2×10^2 g CO₂

b. 9.70 mL H₂O

c. 4.49×10^{22} molecules H₂O

55. a. $\frac{2 \text{ mol NaN}_3}{2 \text{ mol Na}}$, $\frac{2 \text{ mol NaN}_3}{3 \text{ mol N}_2}$,

$\frac{2 \text{ mol Na}}{2 \text{ mol NaN}_3}$, $\frac{2 \text{ mol Na}}{3 \text{ mol N}_2}$,

$\frac{3 \text{ mol N}_2}{2 \text{ mol NaN}_3}$, $\frac{3 \text{ mol N}_2}{2 \text{ mol Na}}$

b. 4.0 mol N₂

c. 11.0 g Na

d. 4.86×10^{23} molecules N₂