

# Stoichiometry Worksheet #1

1. Aluminum chloride,  $\text{AlCl}_3$ , is used as a catalyst in various industrial reactions. It is prepared from hydrogen chloride gas and aluminum metal shavings.



1A. How many moles of  $\text{AlCl}_3$  can be prepared from 3.5 moles of hydrogen chloride gas with an excess of aluminum?

$$3.5 \text{ mol HCl} \times \frac{2 \text{ mol AlCl}_3}{6 \text{ mol HCl}} = 1.2 \text{ mol AlCl}_3$$

Ans: 1.2 mol  $\text{AlCl}_3$

1B. How many moles of hydrogen gas would be produced from the use of 8.5 moles of aluminum with an excess of hydrogen chloride?

$$8.5 \text{ mol Al} \times \frac{3 \text{ mol H}_2}{2 \text{ mol Al}} = 13 \text{ mol H}_2$$

Ans: 13 mol  $\text{H}_2$

2. When dinitrogen pentoxide,  $\text{N}_2\text{O}_5$ , a white solid, is heated, it decomposes to nitrogen dioxide and oxygen.



2A. How many moles of nitrogen dioxide can be formed from the decomposition of 1.25 g of  $\text{N}_2\text{O}_5$ ?

$$1.25 \text{ g N}_2\text{O}_5 \times \frac{1 \text{ mol N}_2\text{O}_5}{108.02 \text{ g N}_2\text{O}_5} \times \frac{4 \text{ mol NO}_2}{2 \text{ mol N}_2\text{O}_5} = 0.0231 \text{ mol NO}_2$$

Ans: 0.0231 mol  $\text{NO}_2$

2B. How many grams of oxygen can be formed from the decomposition of 2.3 g of  $\text{N}_2\text{O}_5$ ?

$$2.3 \text{ g N}_2\text{O}_5 \times \frac{1 \text{ mol N}_2\text{O}_5}{108.02 \text{ g N}_2\text{O}_5} \times \frac{1 \text{ mol O}_2}{2 \text{ mol N}_2\text{O}_5} \times \frac{32.00 \text{ g O}_2}{1 \text{ mol O}_2} = 0.34 \text{ g O}_2$$

Ans: 0.34 g  $\text{O}_2$

3. Chlorine is prepared from sodium chloride by electrochemical decomposition. Formerly chlorine was produced by heating hydrochloric acid with pyrolusite [manganese dioxide or manganese(IV) oxide,  $\text{MnO}_2$ ], a common manganese ore. Small amounts of chlorine may be prepared in the laboratory by the same reaction.



3A. How many grams of HCl react with 5.00 g of  $\text{MnO}_2$ , according to the equation?

$$5.00 \text{ g MnO}_2 \times \frac{1 \text{ mol MnO}_2}{86.94 \text{ g MnO}_2} \times \frac{4 \text{ mol HCl}}{1 \text{ mol MnO}_2} \times \frac{36.46 \text{ g HCl}}{1 \text{ mol HCl}} = 8.39 \text{ g HCl}$$

Ans: 8.39 g HCl

3B. If a chemist wanted to prepare 100. g of chlorine, how many grams of  $\text{MnO}_2$  are needed, assuming there is more than enough hydrochloric acid?

$$100. \text{ g Cl}_2 \times \frac{1 \text{ mol Cl}_2}{70.90 \text{ g Cl}_2} \times \frac{1 \text{ mol MnO}_2}{1 \text{ mol Cl}_2} \times \frac{86.94 \text{ g MnO}_2}{1 \text{ mol MnO}_2} = 123 \text{ g MnO}_2$$

Ans: 123 g  $\text{MnO}_2$

3C. How many molecules of water are produced from the reaction of 5.0 g of HCl?

$$5.0 \text{ g HCl} \times \frac{1 \text{ mol HCl}}{36.46 \text{ g HCl}} \times \frac{2 \text{ mol H}_2\text{O}}{4 \text{ mol HCl}} \times \frac{6.02 \times 10^{23} \text{ molecules H}_2\text{O}}{1 \text{ mol H}_2\text{O}} = 4.1 \times 10^{22} \text{ molecules H}_2\text{O}$$

Ans:  $4.1 \times 10^{22}$  molec.  $\text{H}_2\text{O}$

4. Sodium is a soft, reactive metal that instantly reacts with water to give hydrogen gas and a solution of sodium hydroxide,



4A. How many grams of sodium metal are needed to give 7.81 g of hydrogen by this reaction?

$$7.81 \text{ g H}_2 \times \frac{1 \text{ mol H}_2}{2.02 \text{ g H}_2} \times \frac{2 \text{ mol Na}}{1 \text{ mol H}_2} \times \frac{22.99 \text{ g Na}}{1 \text{ mol Na}} = 178 \text{ g Na}$$

Ans: 178 g Na

4B. How many sodium atoms are needed to react with  $1.25 \times 10^{24}$  molecules of water?

$$1.25 \times 10^{24} \text{ molecules H}_2\text{O} \times \frac{1 \text{ mol H}_2\text{O}}{6.02 \times 10^{23} \text{ molecules H}_2\text{O}} \times \frac{2 \text{ mol Na}}{2 \text{ mol H}_2\text{O}} \times \frac{6.02 \times 10^{23} \text{ atoms Na}}{1 \text{ mol Na}} =$$

Ans:  $1.25 \times 10^{24}$  atoms Na

# Chapter 9 Section 3 Stoichiometry Answers

**DP Hallahan**



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the lenses have a rectangular shape and the aspheric terms are only in one axis do you know which is the best solution for building such an lens array for aspheric surfaces

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web jun 1 2013 the design of the individual lenslets was performed using zemax this 3d microlens array in this study contains 1219 microlenses that are evenly distributed on its concave surface with a high fill factor the overall field of view of this microlens array on curved substrates is more than 104

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web lenslet arrays are modeled using the user defined surface basically the ray trace determines which segment of the array is struck then uses the local lens curvature to determine the refraction the sample source code and dll are provided as us array c and us array dll respectively

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web zemax 1 introduction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones<sup>1</sup> solar concentrators<sup>2</sup> data storage<sup>3</sup> and integral imaging 3d displays<sup>4</sup> etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern<sup>5</sup> the

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web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversely perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coefficient parameters to achieve the best line uniformity and smallest line width

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of süss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using süss microoptics fc q 250 microlens arrays the manufacturer's data is as follows

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web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax