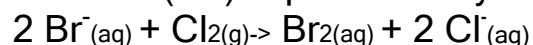


In an experiment, it takes an unknown gas 1.5 times longer to diffuse than the same amount of oxygen gas, O<sub>2</sub>. Find the molar mass of the unknown gas.

Calculate the rate of effusion of NO<sub>2</sub> compared to SO<sub>2</sub> at the same temperature and pressure

Bromine (Br<sub>2</sub>) is produced by reacting sea water with chlorine (Cl<sub>2</sub>).



What mass of Cl<sub>2</sub> is needed to produce 1.0 Kg of Br<sub>2</sub>? 1000 g = 1 kg