

Lewis Acid-Base Homework

Directions: Writing the complete net ionic equation for each of the following (they all will occur). Also, identify which reactant is the Lewis acid and Lewis base. Lastly, draw the lone-pair transfer for each reaction.

1. Gaseous carbon dioxide is bubbled through water,
2. Sulfur dioxide is bubbled through water.
3. The gases boron trifluoride and ammonia are mixed.
4. Ethene (C_2H_4) gas is bubbled through a solution of bromine.
5. Samples of boron trichloride gas and ammonia gas are mixed.
6. Phosphine (phosphorus trihydride) gas is bubbled into liquid boron trichloride.