

Name: \_\_\_\_\_

Block: \_\_\_\_\_

### Solvents & Solutes

For each solute given, indicate whether water ( $\text{H}_2\text{O}$ ) or cyclohexane (a nonpolar molecule) would be a better solvent.

1.  $\text{KNO}_3$ 2. paraffin (long-chain hydrocarbons, such as  $\text{C}_{20}\text{H}_{42}$  or  $\text{C}_{40}\text{H}_{82}$ )3. ethyl alcohol ( $\text{CH}_3\text{-CH}_2\text{-OH}$ )4. acetic acid ( $\text{HC}_2\text{H}_3\text{O}_2$ )

5. mineral oil

6. ammonia ( $\text{NH}_3$ )7. gasoline (short-chain hydrocarbons such as octane,  $\text{C}_8\text{H}_{18}$ )