Read the article and fill the gaps with appropriate words.

ELECTROLYTES

Adapted from http://en.wikipedia.org/wiki/Electrolyte

solid	solvent	conductive	due
concentrated	dissolves	result	solute
dilute	salts	conducts	
charged	ions	electrolysis	

In chemistry, an electrolyte is any substance containing free **1**. that make the substance electrically **2**. The most typical electrolyte is an ionic solution, but molten electrolytes and **3**. electrolytes are also possible.

Electrolyte solutions are normally formed when a salt is placed into a 7. such as water and the individual components dissociate 8. to the thermodynamic interactions between solvent and 9. molecules, in a process called solvation. For example, when table salt, NaCl, is placed in water, the salt (a solid) dissolves into its component ions, according to the dissociation reaction

 $NaCl_{(s)} \rightarrow Na^{+}_{(aq)} + Cl^{-}_{(aq)}$

It is also possible for substances to react with water producing ions, e.g., carbon dioxide gas **10.** in water to produce a solution which contains hydronium, carbonate, and hydrogen carbonate ions.

Note that molten salts can be electrolytes as well. For instance, when sodium chloride is molten, the liquid **11.** electricity.

An electrolyte in a solution may be described as **12.** if it has a high concentration of ions, or **13.** if it has a low concentration. If a high proportion of the solute dissociates to form free ions, the electrolyte is strong; if most of the solute does not dissociate, the electrolyte is weak. The properties of electrolytes may be exploited using **14.** to extract constituent elements and compounds contained within the solution.