



CHEMISTRY

Chemical companies invest billions of dollars annually in research and development to support innovation. In fact, a major portion of U.S. patents is related to chemistry, encompassing life-saving medical treatments, automobile safety improvements, and clean energy technologies. Hamilton Brook Smith Reynolds is on the forefront of chemistry patent protection.

In the field of chemistry, we have expertise in the following:

- Organic chemistry
- Inorganic chemistry
- Physical chemistry
- Materials chemistry
- Organometallic chemistry
- Green chemistry
- Combinatorial chemistry
- Polymer chemistry
- Chemical engineering
- Pharmaceuticals
- Nutraceuticals
- Food science
- Semiconductors
- Superconductors
- Composite materials

Our extended base of education and experience matches the broad reach of these fields. Legal experts at our firm have earned academic degrees and been employed in the fields of organic and physical chemistry, biological and computational chemistry, chemical engineering, materials science, and biology.

Our attorneys keep pace with clients' objectives by understanding the technology in which each client specializes and by aggressively protecting the full scope of each client's technical achievements. For example, in the pharmaceutical field, we have met clients' patent needs for antibacterials, anti-obesity drugs, and diabetes drugs. We also have experience using polymers as semiconductors.

We have obtained patents in almost every aspect of the chemical arts as well. Examples of our work are modeling thermodynamics of chemical manufacturing and enabling higher efficiency of distillation columns by predicting operation closer to the flood point of a distillation column at any combination of liquid and gas flow rates. Physical chemistry also includes applications of diffusion processes, such as filtration of blood toxins across a membrane in dialysis treatment, for which we have obtained patents for wearable artificial kidney devices and high-efficiency filtration of blood toxins.

