



Principal Office

Iolitec
Ionic Liquids Technologies GmbH
Salzstraße 184
D-74076 Heilbronn
Germany
Phone: (+)49 - 71 31 89 83 90

E-Mail: info@nanomaterials.iolitec.com

Web: www.nanomaterials.iolitec.com

Contact Person

Dr. Frank STIEMKE
Head of Working Group Nanotechnology
Phone: (+)49 - 71 31 89 83 90
E-Mail: stiemke@iolitec.de

IoLiTec is an award-winning, dynamic and goal-oriented company. The main activities of **IoLiTec** concern the production and sale of **ionic liquids and nanomaterials** as well as R&D services dealing with the use of these innovative materials in new applications.

On its site in Heilbronn and Tuscaloosa/USA, IoLiTec operates 500 m² of laboratory and office space with well-equipped research and state-of-the-art production facilities. With a well educated team, IoLiTec is in the position to give knowledge-based answers to deal with customer requests from many different sectors in a professional and efficient way.

IoLiTec's services include consulting and feasibility studies as well as the development of marketable products and applications based on ionic liquids, nanomaterials or the combination of both in new technologies. The **use of ionic liquids in nanomaterial technologies** has already shown important advantages in the last years and is still being investigated by universities and industry. As an innovative company, IoLiTec is also active in this field.

Among the possible **applications in nanotechnology**, ionic liquids are known to act as a template for the synthesis of porous nanomaterials through their preorganized structure. Ionic liquids can also be used as a solvent and stabilizer for the preparation of inorganic nanoparticles, enabling the control of particles size growth. They can also be utilized as dispersion media for nanoparticles or as solvent for electrodeposition of nanocrystalline films of a wide range of metals that cannot be electrodeposited from aqueous solutions. IoLiTec pursues internal and external R&D projects concerning these subjects. The expertise of IoLiTec is complemented by the company's close collaborations with various institutes of the Fraunhofer Gesellschaft and a number of leading research groups at universities in Germany and abroad.

Next to R&D services, **IoLiTec offers high quality nanomaterials at very competitive prices**. The available products can be classified in **metals, metal oxides, metal nitrides and carbides** as well as **carbon based nanoparticles** and **dispersions** as listed in the present catalogue. IoLiTec's R&D services also include the study and preparation of nanoparticle dispersions in water or organic solvents.