

# The Global Market for Ionic Liquids

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## Abstracts

Ionic liquids (IL) are a class of solvents comprised of ions and short-lived ion pairs. Ionic liquids have melting points lower than 100 °C and some are liquid at and below room temperature. Various ionic liquids with different properties can be created by combining different cations and anions.

Ionic liquids exhibit properties such as very low vapor pressure, nonvolatility, high ionic conductivity, high electrochemical and thermal stability with a large range of temperature. Room temperature ionic liquids are promising green solvent alternatives to the volatile organic solvents due to their ease of reuse, non-volatility, thermal stability and ability to dissolve a variety of organic and organometallic compounds.

Applications for ionic liquids include:

batteries and supercapacitors

rare-earth metal recycling

agriculture (herbicides, fungicides, antimicrobials, stimulants)

lubricants

biofuels

separation processes

metal and surface finishing

polymer additives

catalysts

pharmaceuticals (e.g. drug delivery)

The market for ionic liquids has picked up significantly in 2021. Chevron has started the world's first commercial-scale ISOALKY™ process unit that utilizes ionic liquids to produce alkylate and several start-ups have received million dollar funding.

Report contents include:

Ionic liquids market drivers and trends.

Market challenges and commercialization issues.

Market revenue estimates 2018-2031 (millions USD).

Recent industry developments.

Ionic liquids production technology analysis.

Analysis of markets and applications for ionic liquids, including

Profiles of 29 companies. Companies profiled include Crop.Zone, CAGE Bio Inc., NantEnergy, NOHMs Technologies, Seren Technologies, Lixea, Solvay, Proionic GmbH, Chevron and more

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