



SOLVAY

asking more from chemistry®



bicar[®]pharma

iPh SODIUM
CARBONATE

Our essential ingredients
for the global pharmaceutical
and cosmetic industry

As market leader, Solvay is offering **pharmaceutical ingredients** meeting high quality standards

We can provide you with the right grade of sodium bicarbonate and anhydrous sodium carbonate for a large range of applications. Furthermore, we are able to provide a strong support to meet specifications and regulatory requirements of the market.



iPh SODIUM CARBONATE

A superior grade of anhydrous sodium carbonate

- In pharmaceutical application as API (Active Pharmaceuticals Ingredient)
- As excipient with desiccant properties in effervescent tablets
- As high substance with pH-buffering properties in cosmetic

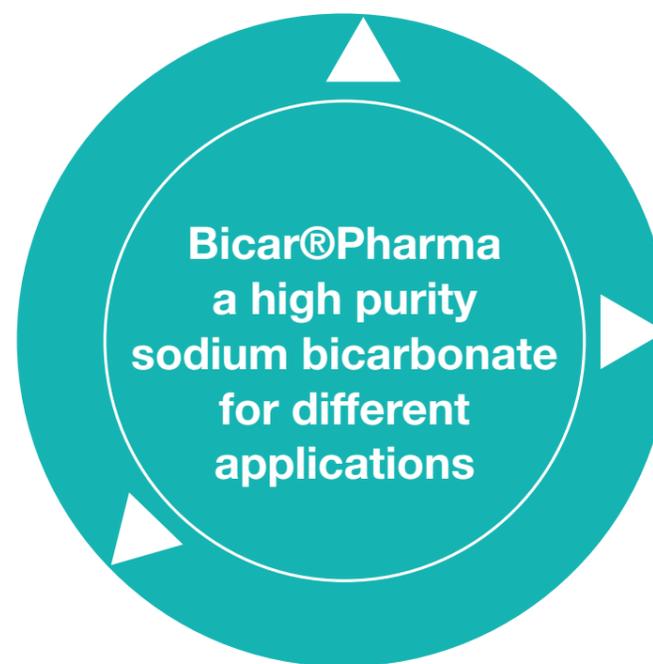


A global player offering a high level of services based on **Excellence**

- Top and consistent quality with a very high purity profile
- Reliability and product availability thanks to a worldwide presence
- Different granulometries to meet customer needs
- Best support in documentation to meet and anticipate future global quality standards (CEP available)
- Building up and exceeding certification standards GMP ICH Q7 and GMP IPEC-PQG

bicarpharma API

- In pharmaceutical applications as an API (Active Pharmaceutical Ingredient)



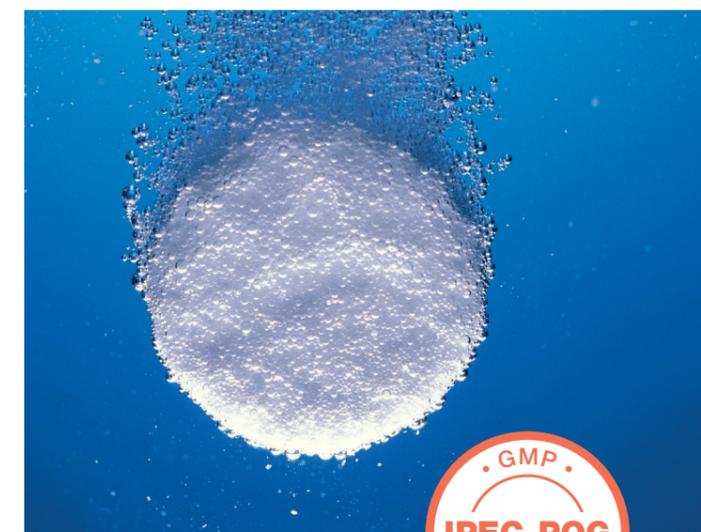
bicarpharma HEMODIALYSIS

- In hemodialysis to provide electrolytes and stabilize the pH



bicarpharma EXCIPIENT

- As an excipient in effervescent tablets
- As high purity, mineral-based non-irritating substance in cosmetics



Solvay, a reliable bicarbonate and derivatives supplier

With its industrial network in Europe, USA and Thailand, its dedicated research and innovation center and strong worldwide supply chain, Solvay is a reliable partner supporting the development of the food industry.



6 plants in EU:

Devnya, Bulgaria
Dombasle, France
Rheinberg and
Bernburg, Germany
Rosignano, Italy
Torrelavega, Spain

2 plants in US

Parachute, Colorado
Green River, Wyoming

1 plant in Asia

Map Ta Phut, Thailand

1 Research and innovation center

Dombasle, France



SOLVAY SODA ASH & DERIVATIVES

25 rue de Clichy
75009 PARIS
Tél. : + 33 (0)1 40 75 80 00
Fax : + 33 (0)1 45 63 57 28

Contacts

EUROPE

Ann Thomas
ann.thomas@solvay.com

LATAM

Virginie Eyll
virginie.eyll@solvay.com

US

Benoit Verdickt
benoit.verdickt@solvay.com

ASIA

Alex Santanna
alex.santanna@solvay.com

www.solvay.com

Solvay Soda Ash and Derivatives (SA&D) is a world leader in its sector, producing soda ash serving the glass, detergent and chemical markets and developing solutions based on sodium bicarbonate and trona serving the healthcare, food, animal feed, and flue gas cleaning markets. SA&D has 11 industrial sites worldwide, more than 3,700 employees and serves 90 countries.

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Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations.