



**HIGH PURITY  
CHEMICALS  
FROM  
HONEYWELL**

**Honeywell**

**As a producer of high purity fine chemicals with over 200 years of expertise, our comprehensive product portfolio and flexible production processes can help you meet your volume and customization requirements.**

With a dedicated Technical Center of Excellence, Packaging Development Center, and customer-oriented Research and Development, Honeywell can help increase your performance through innovation.

Honeywell provides a comprehensive, quality range of high purity acids and bases, inorganic Halides, Fluoride derivatives, Phosphorous derivatives, Sulphur derivatives, Oxides and a wide selection of other inorganic and organic compounds that meet the need of many diverse markets where the cost of failure is high.

### OFFERING A BROAD RANGE OF HIGH PURITY INORGANIC CHEMICALS

In industry, acids and bases are used in various reactions. Sulfuric acid, one of the most important industrial chemicals, is used to manufacture fertilizers for agriculture, to make man-made fibers, paints and dyes, and to purify petroleum products.

Honeywell Bromine, Chlorine, Fluorine, and Iodine derivatives are produced with low levels of impurities and used in a wide range of industries, including metal surface pre-treatment, electronic and energy, and the personal care and food sectors. We manufacture a diverse range of high-purity and tailor-made complex fluorine salts and have the capability to custom manufacture these derivatives to meet specific customer requests. In industrial applications, our fluorides are used as metal surface treatments, cleaners, glass etchants, wood preservatives, and insecticides.



#### WE ARE KNOWN FOR

- Expertise in complex fluorides and metal salts
- High quality, purity, consistency and reliability
- cGMP and HACCP production standards
- Focus on innovation and safety



#### HOW OUR PRODUCTS ARE USED

- Halide addition to active ingredient
- Catalysts for active ingredient synthesis
- Analytics reagents
- Chelating agents

PRODUCTS		
MATERIAL DESCRIPTION	FORMULA	PURPOSE
Copper (I) chloride	CuCl	Precursor, Catalyst
Copper (II) bromide	CuBr <sub>2</sub>	Bromination, Catalyst
Ethylene diamine tetra acetic	EDTA Salt	Versatile chelating agent
Hexafluorozirconium acid	H <sub>2</sub> ZrF <sub>6</sub>	Precursor, Catalysts & Inhibitor
Hydrofluoric acid	HF	Fluoridation of organic compounds
Lead Acetate	PbAc	Sugar Cane Analysis
Magnesium Acetate	Mg(CH <sub>3</sub> COO) <sub>2</sub>	Catalyst
Manganese Dioxide (IV)	MnO <sub>2</sub>	Precursor, Catalyst
Potassium Fluoride	KF	Fluoridation of organic compounds
Potassium Iodide	KI	Analytical Reagent
Potassium Nitrate	KNO <sub>3</sub>	Desensitizing agent in Oral Care products
Stannous Fluoride	SnF <sub>2</sub>	Tooth paste ingredient
Strontium Acetate	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> Sr	Desensitizing agent in Oral Care products
Tetrafluoroboric acid	HBF <sub>4</sub>	Fluoridation of organic compounds
Zinc Sulfate	ZnSO <sub>4</sub>	Catalyst

**Honeywell's diverse range of high-purity and tailor-made fine chemicals are customizable to meet specific customer needs.**

## FUNCTIONAL INORGANICS TO MEET YOUR NEEDS

Quality yield at each reaction step to support handling and reaction consistency

- Repeatable yield in your production process
- Reliable adherence to product specification
- Free-flowing powders (where applicable)
- Production scale in excess of 100mt per year
- Flexibility in package offerings
- Technical support for current and future product needs

CUSTOMER BENEFIT	HONEYWELL OFFERING	EVIDENCE
<b>Safety</b>	High purity (contaminant free)	Impurity down to ppt level 50 people in analytics / quality control
<b>Reliability</b>	<ul style="list-style-type: none"> <li>- Global supply chain</li> <li>- Batch-to-batch consistency</li> </ul>	On Time Deliveries = 88.7% ppm = 120 <sup>1</sup>
<b>One-stop shopping</b>	Comprehensive product portfolio	<ul style="list-style-type: none"> <li>- Producer of high-purity Hydrofluoric Acid</li> <li>- Flexible production process to meet your volume requirements.</li> </ul>
<b>Increased performance from innovation<sup>2</sup></b>	New Product Development	200 years expertise with dedicated Technical Center of Excellence
<b>Improved efficiency<sup>3</sup> and failure minimizations</b>	Customization	<ul style="list-style-type: none"> <li>- Customer oriented R&amp;D</li> <li>- Dedicated Packaging Development Center</li> <li>- Temperature and moisture-controlled supply chain and many more</li> </ul>
<b>Speed</b>	<ul style="list-style-type: none"> <li>- Fast product development</li> <li>- Fast scale-up</li> </ul>	<ul style="list-style-type: none"> <li>- Velocity Product Development™</li> <li>- 1kg to &gt;10MT / batch within 14 to 40 weeks<sup>4</sup></li> </ul>

2013 YTD figures

1. claimed volume / shipped volume x 10<sup>6</sup> | 2. higher sales; lower cost; brand risk mitigation  
3. shorter production time / higher productivity | 4. from date of initial customer request



## CHANCES ARE, YOU HAVE ENCOUNTERED OUR HIGH PURITY CHEMICALS TODAY

Whether it's in your toothpaste, deodorant and even windows, our chemicals are helping our everyday products be safer, more hygienic, reliable, and durable.



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### Contact us to learn more



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