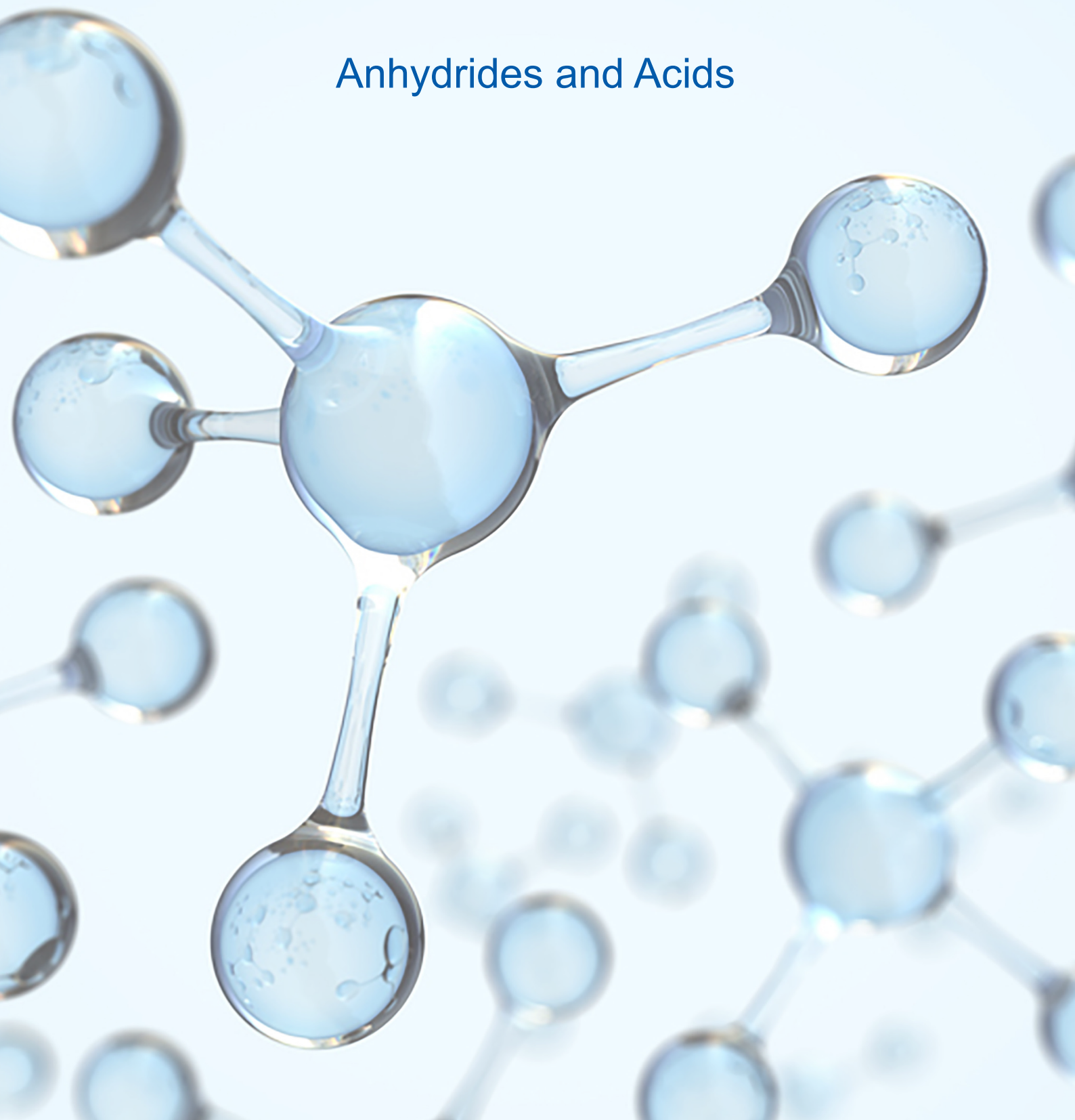




## Anhydrides and Acids



# Polynt Group Intermediates & Specialties

## Anhydrides and Acids

### Production Sites



#### EMEA

**Polynt S.p.A.** - Brembate - Ravenna  
- San Giovanni Valdarno - Scanzorosciate

### Polynt Group

After the merger with Reichhold on May 2017 the new Polynt Group is a global Company in the Intermediates, Coating and Composite Resins, Thermoset Compounds, Gel-coats and niche Specialties.

This combination enhances the Group's leading position as a global vertically integrated specialty chemicals player, with significant global presence in Europe, North America and Asia, a strategy initiated by Polynt with the successful integration of PCCR and CCP in the last years and now further reinforced by Reichhold's global scale, extensive product portfolio and R&D competencies.

Polynt Group is known for its superior quality and impressive range of products and with its excellent distribution network it can provide first-class service to customers whatever their market. Customer Service and Technical Service teams are renowned for their customer focus, offering the best service even after products have left manufacturing.

The Group strives to keep customers satisfied, assisting them in producing premium quality products every time they use its products. Product innovation is important for the Group's business and it's the reason for which it constantly works with customers to find solutions to problems.

Introducing new or improved products ensures that Polynt-Reichhold Group continue not only to deliver what the market wants and needs, but also when it is wanted and needed.

### Anhydrides

Polynt Group produces a great variety of anhydrides, but the most important ones are the following.

#### MALEIC ANHYDRIDE

It is an organic compound obtained by the transformation of benzene or normal butane, both derived from oil, through the use of catalysts (catalytic oxidation process). Its production, initially based on the fixed bed technology from benzene, was supplemented by the fluidized bed from normal butane in the '90s.

This anhydride is highly versatile, thanks to its chemical structure.

#### PHTHALIC ANHYDRIDE

It is an organic compound obtained by the transformation of ortoxyleno (derived from oil) through the use of catalysts (catalytic oxidation process).

### TRIMELLITIC ANHYDRIDE

It is an organic anhydride obtained by a process of transformation of pseudocumene (derived from oil) through the use of catalysts (catalytic oxidation process).

### TETRAHYDROPHthalic ANHYDRIDE

It is an organic compound obtained from the reaction of maleic anhydride and butadiene.

PRODUCT FAMILY NAME	APPLICATIONS
Maleic Anhydride	Unsaturated polyester resins, surface coatings, plasticizers, lubricant additives, copolymers for water treatment, solvents, agricultural chemicals, paper sizing, fumaric acid, succinic anhydride, malic acid, butanediol, esters.
Phthalic Anhydride	Phthalate plasticizers, unsaturated polyester resins, alkyd resins for paints and varnishes, polyester polyols, ally resins, pigments and dyes, agrochemicals.
Trimellitic Anhydride	Trimellitate plasticizers, polyester powder coatings (electrical appliances), polyester-imide resins, water soluble alkyd resins, polyamide-imides, enamels for insulating electrical cables, furnishings, metal, specialty plasticizers for electrical, transportation and medical industries.
Tetrahydrophthalic Anhydride	Hardener for epoxy resins, light-coloured alkyd resins, unsaturated polyester resins, adhesives, plasticizers, intermediate for pesticides and agrochemicals.

For further information please contact us

## Acids

Polynt Group mainly produces two acids.

### FUMARIC ACID

It is obtained from the hydration of maleic anhydride or from isomerization of maleic acid solution.

### MALIC ACID

It is manufactured by the hydration of maleic anhydride, it is available in different sizes (granular, fine, special fine and powder), it is also present in nature and its main application is as for:

- food additives for beverages, desserts, jams and jellies
- additive in animal feed
- antifouling products
- cosmetic industry (for moisturizers and anti-wrinkle)
- construction industry as retardant additive in cement
- metallurgical industry for the metals cleaning and as a binder for the melting molds.

PRODUCT FAMILY NAME	APPLICATIONS
Fumaric Acid	Food and feed additives, unsaturated polyester resins, alkyd and allyl resins, paper sizing, adhesives, lubricants.
Malic Acid	Food additive (beverages, bakery products, confectioneries, desserts, jams and fruit jellies), technological additive in animal feed, metal treatment, textile industry, plating industry, retardant for plasters and cements, pharmaceutical, cosmetics.

For further information please contact us

This brochure is intended to provide a comprehensive list of the products and services available from all business sectors in which are active the companies and/or corporations controlled, directly or indirectly, by Specialty Chemicals International Ltd (hereinafter referred to as «Polynt Group»). The information, recommendations, answers and/or opinions contained herein (which must be intended only for explanatory purposes) are aimed to assist customers on the basis of our technical and scientific knowledge as of today, taking into account that our products are intended for sale to industrial and commercial customers. However we require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their applications: nothing herein shall constitute or shall be deemed to be any other warranty or a representation, express or implied, including merchantability or fitness for a particular purpose or results to be obtained from the use of such information, nor shall be taken or construed as infringing of any existing patents. Product names in capital letters are registered trademarks of the relevant member of Polynt Group. © Polynt S.p.A. - March 2025

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