

Gallic Acid Market Regional Outlook, Opportunity, Assessment, Forecast till 2033

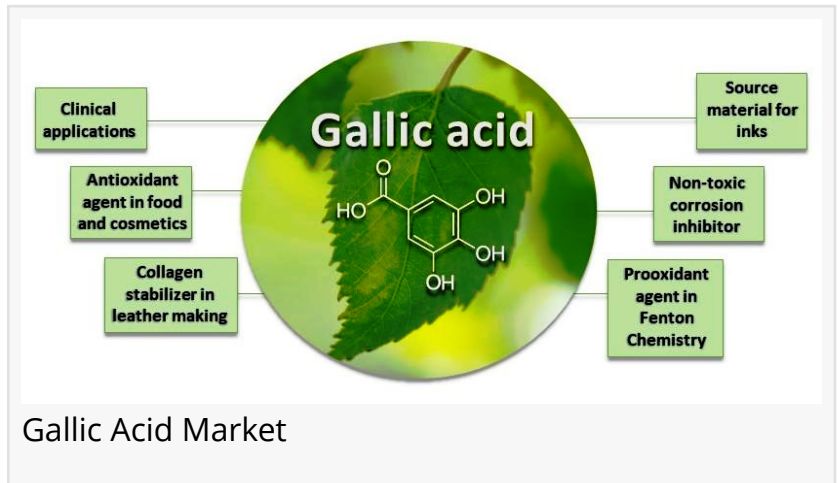
Gallic Acid Market Size, Share, Competitive Landscape and Trend Analysis Report, by Grade, by Application, by End-Use Industry

PORTLAND, OR, UNITED STATES,
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EINPresswire.com/ -- Gallic acid

(C₇H₆O₅), also known as 3,4,5-trihydroxybenzoic acid, is a naturally occurring phenolic acid found in many plants, fruits, and natural substances

like tea, grapes, berries, and oak bark. It is a secondary plant metabolite that plays a key role in plant defense mechanisms. The global [gallic acid market](#) was valued at \$81.0 million in 2023, and is projected to reach \$137.5 million by 2033, growing at a CAGR of 5.3% from 2024 to 2033.



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Gallic acid is a type of phenolic acid that is found abundantly in various plants such as gallnuts, sumac, tea leaves, and grapes.”

David Correa

Gallic acid is widely known for its antioxidant, antimicrobial, and anti-inflammatory properties, making it valuable in food, pharmaceuticals, cosmetics, and the dyeing and tanning industries.

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Biological Properties of Gallic Acid

Gallic acid has a wide range of biological activities that make it valuable for therapeutic and commercial use.

Antioxidant: Neutralizes free radicals, reducing oxidative stress and protecting cells from damage.

Anti-inflammatory: Inhibits the production of inflammatory mediators like cytokines and enzymes (e.g., cyclooxygenase, COX).

Antimicrobial: Exhibits antibacterial, antifungal, and antiviral activity, which is useful in food

preservation.

Anti-cancer: Promotes apoptosis (programmed cell death) in cancer cells without harming healthy cells, making it a promising anticancer agent.

Anti-diabetic: Lowers blood sugar levels and prevents oxidative damage caused by high glucose levels.

Neuroprotective: Protects neurons from oxidative stress, potentially useful in neurodegenerative diseases like Alzheimer's and Parkinson's.

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Uses and Applications of Gallic Acid

1. Food and Beverages

Antioxidant and Preservative: Used as a food additive (E310) to prevent oxidation and rancidity in fats, oils, and processed foods.

Food Packaging: Added to food packaging materials to extend shelf life by preventing microbial growth and oxidation.

Functional Foods and Supplements: Included in health supplements due to its antioxidant and anti-inflammatory benefits.

Wine Production: Present naturally in wine, especially red wine, where it enhances the wine's taste, aroma, and antioxidant properties.

2. Pharmaceuticals and Medicine

Antioxidant Supplements: Used as a health supplement to combat oxidative stress and promote general well-being.

Anti-Cancer Therapy: Gallic acid induces apoptosis in cancer cells and is being researched as an anti-cancer drug.

Anti-Diabetic Agent: Included in natural remedies and supplements for diabetes management due to its ability to lower blood sugar levels.

Neuroprotection: Used in research for Alzheimer's, Parkinson's, and other neurodegenerative conditions.

Anti-inflammatory and Pain Relief: Incorporated in topical creams and ointments for joint pain, swelling, and inflammation.

3. Cosmetics and Personal Care

Anti-Aging Skincare: Due to its ability to neutralize free radicals, gallic acid is used in anti-aging creams, lotions, and serums.

Skin Lightening: Reduces melanin production, which can lead to a skin-lightening effect.

Anti-Acne Formulations: Its antimicrobial properties help fight acne-causing bacteria, making it useful in acne creams.

4. Dyes, Ink, and Tanning

Tannins Production: Gallic acid is a key component in the production of tannins, which are used

in leather tanning.

Inks and Dyes: Historically used to produce iron gall ink, a permanent ink used in medieval manuscripts and official documents.

Colorants: Used as a natural dye for fabrics and textiles.

5. Industrial Applications

Photographic Chemicals: Used in photographic developers to enhance image clarity.

Corrosion Inhibitor: Coatings made with gallic acid protect metal surfaces from corrosion.

Bio-based Polymers: Incorporated into the production of sustainable, biodegradable polymers.

Want to Access the Statistical Data and Graphs, Key Players' Strategies:

<https://www.alliedmarketresearch.com/gallic-acid-market/purchase-options>

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