

**Production of
DL Tartaric Acid and
Its Salts for
Textile Industry**

Introduction

DL Tartaric Acid is a colorless and semi-transparent or white powder, with a sour taste. It is widely used in many fields such as foodstuff, medicine, the chemical and light industries etc., and is mainly used to make tartrates (tartaric acid salts), like antimony potassium tartrate, and potassium sodium tartrate. It can be used as a beer vesicant, foodstuff sourness agent, and flavoring etc. Its sourness is 1.3 times of that of citric acid, and it is especially suitable to be a sourness agent of grape juice. It is also very important for the tannage, photograph, glass, enamel and telecommunication equipment industries.

Tartaric Acid is a white crystalline dicarboxylic acid found in many plants, particularly tamarinds and grapes. Tartaric acid is used to generate carbon dioxide through interaction with sodium bicarbonate following oral administration. Carbon dioxide extends the stomach and provides a negative contrast medium during double contrast radiography.



Tartaric acid is an organic acid naturally found in fruits including grapes and tamarind. It is a principal ingredient in wine and provides it with the characteristic tart taste. Tartaric acid is primarily manufactured from natural raw materials; however, it can also be manufactured synthetically from maleic anhydride. Tartaric acid finds applications in the wine, food & beverages, construction, pharmaceutical, chemical, leather tanning, and metal finishing industries. It is used as an acidulant, pH control, and flavorant in wine. Tartaric acid is also used as an anti-microbial agent, anti-caking agent in bakery items and flavorant for fruit juices in the food & beverages industry. In the pharmaceutical industry, it is used as an excipient for drugs with poor solubility at higher pH levels. Tartaric acid is used as an anti-set agent in cement formulations in the construction industry.

DL tartaric acid is very useful in many applications,

- **Tartaric Acid is widely used as antioxidant and acidity regulator in food production.**

As antioxidant: in canned food to maintain flavor and appearance.

As acidity regulator: in canned food and confectionery to improve flavor.

- **Beverage**

Dl Tartaric Acid is widely used as antioxidant and acidity regulator in beverage.

As acidity regulator: in soft drink to improve flavor.

- **Pharmaceutical**

Dl Tartaric Acid is widely used as intermediate in Pharmaceutical.

As intermediate: in medicine manufacturing.

- **Cosmetics**
- **Agriculture/Animal Feed**
- **Other Industries**

Dl Tartaric Acid is widely used as antioxidant in various other industries.

As antioxidant: in leather processing to soften leather.

Tartaric acid is used in silvering mirrors, tanning leather, and in the making of Rochelle salt, which is sometimes used as a laxative.

Salts of Tartaric

Salts of tartaric acid are known as tartrates. It is a dihydroxyl derivative of succinic acid.

- 1. (R*, R*)-(+)-2,3-dihydroxybutanedioic acid, Monoammonium Monosodium Salt**
- 2. Aluminium Tartrate**
- 3. Ammonium Tartrate**
- 4. Calcium Tartrate**
- 5. Calcium Tartrate Tetrahydrate**
- 6. Mn (III) Tartrate**
- 7. Potassium Tartrate**
- 8. Seignette Salt**

9. **Sodium Ammonium Tartrate**
10. **Sodium Potassium Tartrate**
11. **Sodium Tartrate**
12. **Stannous Tartrate**
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14. **Tartaric Acid, ((R*, R*)-(+))-isomer**
15. **Tartaric Acid, (R*, S*)-isomer**
16. **Tartaric Acid, (R-(R*, R*))-isomer**
17. **Tartaric Acid, (S-(R*, R*))-isomer**
18. **Tartaric Acid, Ammonium Sodium Salt, (1:1:1) Salt, (R*, R*)-(+)-isomer**
19. **Tartaric Acid, Calcium Salt, (R-R*, R*)-isomer**
20. **Tartaric Acid, Monoammonium Salt, (R-(R*, R*))-isomer**

India Tartaric Acid Market is projected to grow at a robust CAGR due to increasing use of tartaric acid as a preservative in packaged foods coupled with growing use across various end-user industries, such as food & beverages, pharmaceuticals as it acts as an emulsifier and chelating agent. Moreover, the rising adoption of tartaric acid in antacids will drive the growth of the market further.

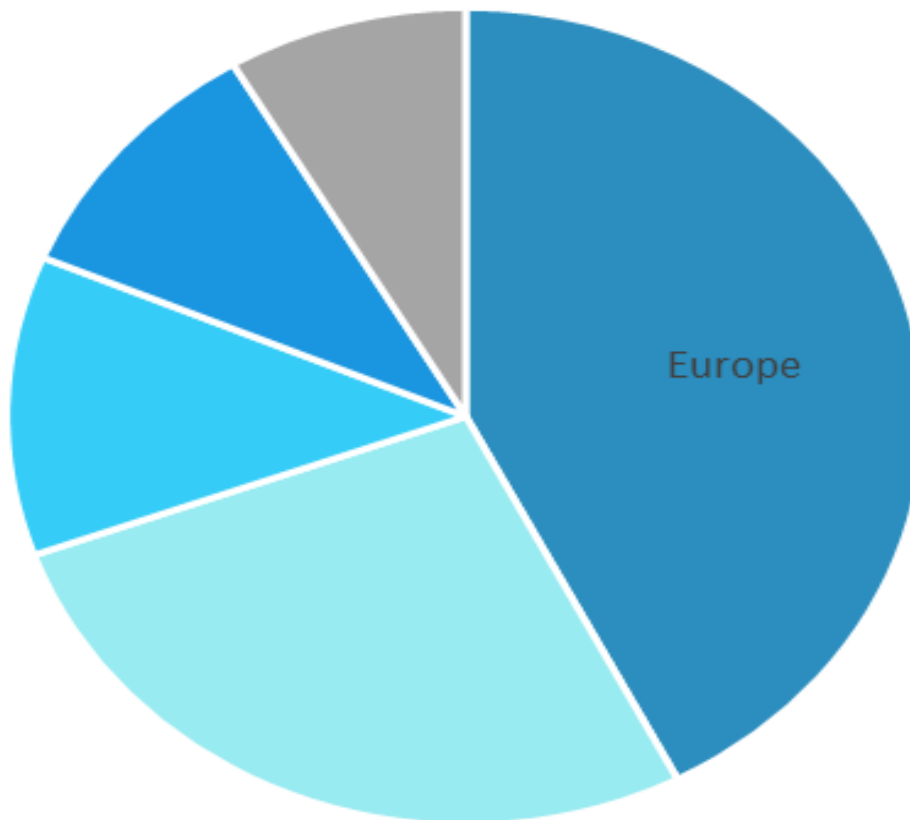
Based on the type of tartaric acid, synthetic segment is expected to hold the largest market share in the forecast period as tartaric acid produced in the country is chemically synthesised. Based on the application, food & beverage is expected to lead the market in the next five years owing to the widespread applications of tartaric acid as emulsifier and preservative in packaged foods, bakery items, soft-drinks etc.

The tartaric acid market is expected to record a moderate CAGR between 2018 and 2023. Increasing demand from the wine industry in the Asia-Pacific and Latin American regions, coupled with the growing demand for packaged food, is expected to drive the market during the forecast period. The market is primarily driven by the diverse uses of tartaric acid in the food & beverage industry. Owing to the changing lifestyles, the growing demand for packaged food in developing economies around the world is expected to boost market growth during the forecast period.



Tartaric Acid Market

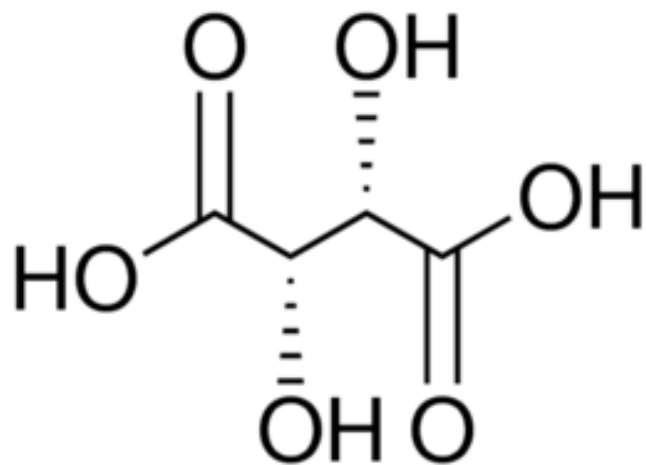
Tartaric Acid Market: Revenue (in %), Global 2017



Tartaric acid is widely used in the pharmaceutical segment. This is owing to its characteristic property of enhancing the taste of medicine, making it the material of choice for use in the pharmaceutical industry. Tartaric acid and its derivatives are widely used in making effervescent salts, which are formed when combined with citrates. The pharmaceutical industry is expected to be the one of the fastest growing segments by end-user industry in the global tartaric acid market due to the rise in medicine demand globally.



The natural tartaric acid segment is projected to be the fastest-growing during the forecast period, due to its high usage in applications such food & beverages, especially in the wine industry, resulting in an exponential increase in the consumption and production. Tartaric acid is mostly used in the wine industry due to the major role it plays in maintaining the chemical stability of the wine, controlling the acidity of wine and its color, and finally in influencing the taste of the finished wine.



Project at a Glance

PROJECT AT A GLANCE								(in lacs)
COST OF PROJECT				MEANS OF FINANCE				
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total	
Land & Site Development Exp.	0.00	85.00	85.00	Capital	0.00	94.33	94.33	
Buildings	0.00	81.20	81.20	Share Premium	0.00	0.00	0.00	
				Other Type Share				
Plant & Machineries	0.00	117.90	117.90	Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	36.00	36.00	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	282.99	282.99	
Preliminary & Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00	
Provision for Contingencies	0.00	11.00	11.00	Unsecured Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	20.21	20.21					
TOTAL	0.00	377.31	377.31	TOTAL	0.00	377.31	377.31	

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No. of Times	
	`	`	`	`	`	%	`	%	`	s	%
1-2	5.74	9.30	15.74	24.00	0.00	100.00	5.74	0.00	5.74	1.00	0.00
2-3	8.88	11.99	24.62	18.00	0.00	100.00	8.88	0.00	8.88	1.00	0.00
3-4	11.93	14.66	36.55	12.00	0.00	100.00	11.93	0.00	11.93	1.00	0.00
4-5	14.86	17.24	51.41	6.00	0.00	100.00	14.86	0.00	14.86	1.00	0.00
5-6	17.62	19.72	69.03	0.00	0.00	100.00	17.62	0.00	17.62	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.35	1.35		1.53	1.53	1.90		23.64%	13.51%	9.36%	382.22	66.15%	1.39	0.95
2-3	1.70	1.52		0.73	0.73	1.01		27.11%	18.98%	12.43%	440.06	65.28%	1.48	1.43
3-4	2.10	1.69	2.09	0.33	0.33	0.54		29.41%	22.79%	14.61%	502.79	65.26%	1.48	2.03
4-5	2.57	1.88		0.12	0.12	0.28		30.93%	25.45%	16.17%	565.51	65.25%	1.41	2.74
5-6	3.13	2.09		0.00	0.00	0.14		31.87%	27.29%	17.26%	628.24	65.24%	1.31	5.78

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	54.87%
Total BEP (% of Installed Capacity)	58.02%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	28.03%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	4.228

Major Queries/Questions Answered in the Report?

- 1. What is DL Tartaric Acid Manufacturing industry ?**
- 2. How has the DL Tartaric Acid Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of DL Tartaric Acid Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up DL Tartaric Acid Manufacturing plant ?**

- 5. What is the structure of the DL Tartaric Acid Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up DL Tartaric Acid Manufacturing Business?**
- 7. What are the operating costs for setting up DL Tartaric Acid Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up DL Tartaric Acid Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up DL Tartaric Acid Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up DL Tartaric Acid Manufacturing plant ?**
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- 12. What is the Manufacturing Process of DL Tartaric Acid and Its Salts?**

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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on DL Tartaric Acid.” provides an insight into DL Tartaric Acid market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of DL Tartaric Acid project. The report assesses the market sizing and growth of the Indian DL Tartaric Acid Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the DL Tartaric Acid sector in India along with its business prospects. Through this report we have identified DL Tartaric Acid project as a lucrative investment avenue.

Tags

Process for Producing DL-Tartaric Acid, DL-Tartaric Acid, Tartaric Acid, Process for Manufacture of Tartaric Acid, uses of Dl Tartaric Acid, Tartaric Acid Manufacture, Production of DL-Tartaric Acid, Organic Chemical, Chemical Company, Tartaric Acid Formula, Tartaric Acid Production Plant, Natural Tartaric Acid, Chemical Compound, Tartaric Acid Uses, Preparation of Tartaric Acid, Method of Preparing Tartaric Acid, Tartaric Acid Chemical, Tartaric Acid In Wine, Dl-Tartaric Acid Calcium Salt, Dl Tartaric Acid and its Salts, Salts of tartaric acid, tartrates, DL Tartaric Acid and Its Salts for Textile Industry, Project Report on Tartaric Acid Production Industry, Detailed Project Report on DL Tartaric Acid Production, Project Report on Tartaric Acid Production, Pre-Investment Feasibility Study on Tartaric Acid Production, Techno-Economic feasibility study on Tartaric Acid Production, Feasibility report on DL Tartaric Acid Production, Free Project Profile on Tartaric Acid Production, Project profile on DL Tartaric Acid Production, Download free project profile on DL Tartaric Acid Production

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



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- *We have two decades long experience in project consultancy and market research field*
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- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

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