

**PRAKASH**

Chemicals Agencies



# ILLUMINATION

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world of chemistry*





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**Malic acid**, a naturally occurring organic compound, is found in various fruits and plants, with apples being one of its primary sources. Its applications extend far beyond its presence in fruits, as it plays a crucial role in the food and beverage industry, as well as other sectors such as pharmaceuticals, personal care, and even oil production. This article explores the various properties, applications, and future prospects of malic acid.

### Properties & Characteristics:

Malic acid is a dicarboxylic acid, belonging to the alpha-hydroxy acid (AHA) family. It is composed of two carboxylic acid groups (-COOH) and a hydroxyl group (-OH). Its molecular formula is C<sub>4</sub>H<sub>6</sub>O<sub>5</sub>, and it can exist in two isomeric forms: L-malic acid and D-malic acid. In most natural sources, malic acid predominantly occurs in the L-form.

Malic acid is characterized by several properties that make it a valuable component in various industries:

### Applications:

- **Beverages:** Malic acid improves the taste of juices, soft drinks, cider, and wines. It's also used in carbonated and non-carbonated beverages to enhance flavors and mask aftertastes of sweeteners.
- **Confectionery:** In candies and chewing gum, malic acid adds a pleasant tartness. It's soluble and can be added without extra moisture, extending shelf life.
- **Dairy Products:** When used in dairy, malic acid enhances fruit flavors and reduces the taste of whey.
- **Bakery Products:** In baked goods with fruit fillings, like pies and cakes, malic acid boosts fruit flavors.
- **Medical and Personal Care:** Malic acid is used in throat lozenges, cough syrups, and skincare products. It can stimulate saliva flow and improve skin conditions.
- **Oil Industry:** It's increasingly used in the oil industry to aid in crude oil transportation.
- **Other Industries:** Malic acid has applications in Gypsum cement, acrylic fiber production, and electroplating chemicals. explosive reactions. It does not spontaneously combust when mixed with air or water.

### Properties:

- Malic acid is a natural component found in plants.
- It is non-toxic and suitable for use in food products.
- It has no explosive properties and is thermally stable.
- Malic acid is highly soluble in water.
- The substance can be produced through the hydration of fumaric acid.
- It is a key part of the Krebs Cycle and occurs naturally in many foods.

### Future Outlook:

The global malic acid market is expected to grow, with the Asia-Pacific region leading the way. The food processing industry's growth, especially in this region, drives the demand for malic acid. It is used as an acidulant and flavor enhancer in various food and beverage products, making it a crucial ingredient for the industry's expansion. The market is predicted to grow at a compound annual growth rate of 7.33% from 2022 to 2027.

In summary, malic acid is a versatile and safe ingredient widely used in the food and beverage industry, and its applications extend to various other sectors, such as healthcare and oil production. Its future looks promising, particularly in the Asia-Pacific region, thanks to the booming food processing industry.

**Mr. Vijay M**  
Associate Manager - Marketing  
*Editor for the Month*



## Team building training session with Mr. Anand Mehta



## PCAPL team picnic at Neonz Resort





**Dusshera pooja at Prakash house**



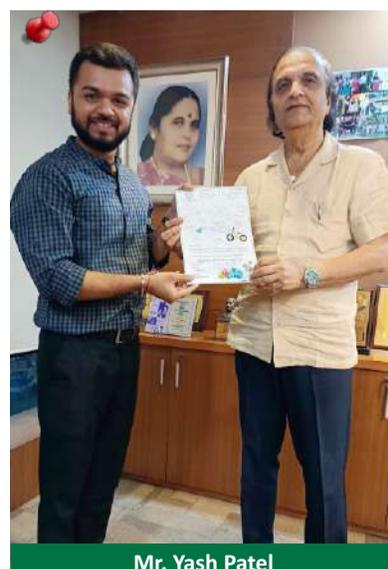
**PCAPL garba night 2023**



**Our MD Mr. Dilip Shah received memento from Bharuch District Table Tennis Association (BDTTA) for giving their support in GNFC's 2nd Gujarat state ranking table tennis tournament 2023.**



**Ms. Bansari Barot**



**Mr. Yash Patel**



**Mr. Umesh Parmar**



## Daan utsav celebration - 2nd Oct to 8th Oct 2023



Swachhta Drive @ New Vegetable Market, Gorwa



Fun games with children @ Adopted anganwadi centres



Donation @ Bal Gokulam Vadodara



Cloths Donation @ Anand Ashram



Chair donation @ Sankalp



Donation @ Arpan



Navratri Celebration with children and workers of Adopted Anganwadi Centres



Session on Breast Cancer Awareness with women participants at Anganwadi centres.



World handwash awareness day



Training on Books of record with SHG Women



Distribution of Nutritional Juice from Dabur India to children of Adopted Anganwadi centres



- The government has launched a web portal providing statistical data related to the chemical sector for the benefit of all stakeholders.

The portal called 'ChemIndia' ([charak.chemicals.gov.in](http://charak.chemicals.gov.in)) will facilitate the collection of statistics related to various aspects of the chemical sector, such as production, installed capacity, export, import, purchases and sales, the Ministry of Chemicals and Fertilizers said.

- An analysis of 48 companies rated by Crisil Ratings, accounting for nearly 90% of the Rs.78,000 crore agrochemicals sector as of fiscal 2023, indicates that for the first time in a decade, the companies will see a drop in revenue by up to 3% on-year in fiscal 2024.
- Silox India, a joint venture of Transpek Industry and Belgium's Silox, and a leading manufacturer of sodium hydrosulphite and sodium & zinc formaldehyde sulphonylates, has acquired 35 acres of new greenfield industrial site at Payal Industrial Park (PIP), Dahej, Gujarat.
- In a move to expedite India's goal of becoming a significant player in the global hydrogen market, the Ministry of Shipping and Ports has identified three key ports Kandla, Paradip, and Tuticorin as focal points for the export of green hydrogen, green ammonia, and green methanol within the next seven years.

- Tata Consultancy Services (TCS) has launched the 'TCS Product Life Cycle Profiler', a life cycle assessment (LCA) tool that computes environmental impacts across product lines.

- Mumbai based logistics company, Jeena & Company, has introduced artificial intelligence (AI) to improve productivity. The company said it is already seeing "outstanding results" after integrating its Customs House Agent (CHA) software with an AI solution.

- The Ministry for New and Renewable Energy (MNRE) has unveiled the R&D roadmap for the national green hydrogen mission, committing Rs.400-crore towards developing a research ecosystem that can commercialise green hydrogen.

- Haldia Petrochemicals Ltd. (HPL) has announced a Rs. 3,000-crore chemical downstream project, embarking on the most ambitious diversification path undertaken by the company in Bengal in more than a decade.

**Once** upon a time, a man was living happily with his wife and a son in a small town. They had a beautiful house having lush green garden in front and backyard. As his son was growing up, he noticed that the little boy's behavior was getting changed. His son was developing a very bad temper. He tried to counsel him, but there was no result. The boy used to get angry very frequently and often out of anger he used bad language. His words started hurting others. He scolded kids in school, neighbors and even his friends due to anger. His friends and neighbors started avoiding him, and his parents were getting really worried about him.

One day, he called his son in his bedroom. The father had a plan to improve the behavior of his son. He gave him a bag of nails and a hammer; and said that every time the boy lost his temper, he had to hammer a nail into the wooden fence of the backyard. At first, it sounded strange to the young boy. But the boy followed his father's instructions and on the very first day he hammered 43 nails into wooden fence at the backyard. The father asked his son to notice how frequently boy was getting annoyed and angry in a particular day. This was alarming and the little boy decided to control on his anger.

The boy gradually began to notice the anger generating moments deliberately. He tried to control his temper over the next few weeks, and the number of nails he was hammering into the fence slowly decreased. Finally, the day came when the boy didn't lose his temper at all. He told his father the news and the father suggested that the boy should now pull out a nail every day he kept his temper under control.

The days passed and the young boy was finally able to tell his father that all the nails were gone. The boy learnt the art of getting rid of anger. He was very happy as he could change his behavior. The father took his son by the hand and led him to the wooden fence of backyard.

The father said "Excellent; you have done very well, my son, but look at the holes in the fence. The fence will never be the same. When you say things in anger, they leave a scar just like this one. You can put a knife in a man and draw it out. It won't matter how many times you say I'm sorry, the wound is still there.

### MORAL OF THE STORY

*Control your anger, before it controls you. Many times due to heat of the moments we say things to others, on which we feel regret later on. The words are like bullets which can never come back to weapon, once triggered. Same way like bullets, words leave deep scars on the mind and souls of others. Those wounds are like holes in the fence, which are irreparable. You may apologize (taking the nails out of fence), but scar (holes in fence) will always remain there.*



Open communication is when senior managers and other workers in an organization express their ideas, issues, and thoughts with one another in a steady, honest, transparent, and reliable manner

In this open communication people feel free to give their input and ideas. Information is shared freely and conflicts are openly discussed and worked through. People are more willing to express innovative ideas and to take risks. The basis of the open communication climate is trust.

Without open communication in the workplace, the internal systems that allow businesses to run smoothly begin faltering. As a result, it affects how well the company operates. For example, if silos form among different teams and employees stop communicating, problems will arise.

It is the process of exchanging ideas, thoughts, opinions, knowledge, and data so that the message is received and understood with clarity and purpose. When we communicate effectively, both the sender and receiver feel satisfied.

In our daily life, communication helps us to build relationships by allowing us to share our experiences, and needs, and helps us connect to others. It's the essence of life, allowing us to express feelings, pass on information and share thoughts.

Open communication can significantly improve collaboration between people within the same organization. If you work in a managerial role, communicating openly with team members and anyone else involved in your projects can lead to better efficiency.

Open and honest communication in the workplace is non-negotiable for high-performing teams. Without open communication, tasks can go uncompleted, team members can become disengaged, and company culture can get lost.

The main benefit of implementing open communication policies is having increased productivity from employees. Letting employees know that the company wants them to express their ideas can improve morale, which usually leads to greater productivity. It can improve employee confidence.

Good communication skills can play an important role in nurturing positive work experiences for your entire team. As people feel listened to and understood by you, you naturally improve your work environment. If you want to learn more about how to improve your leadership skills, including your communication strategies, take a look at our Effective communication workshop at PCC. This condensed workshop will demonstrate the impact communication skills have on other people, at work and in life.





# PUZZLE YOUR MIND

Q1- I have no doors but have keys, I do have a space but no rooms. You can enter but never leave. What am I ?

Q2- At the end of a line what can you find?

Q3- Name the 3 letters, change a girl into a women?

Q4- Write the next in this sequence  
JFMAMJJASON...

Q5-  $1 + 4 = 5$   
 $2 + 5 = 19$   
 $3 + 6 = 72$   
 $4 + 7 = ?$



Winner of Puzzle Competition - Sep 2023 Edition  
!! Mr. Mayur Sant - Congratulations !!

Answer to  
the Puzzles of  
Sep 2023

Q1- 484  
Q2 - Y  
Q3 - Queue  
Q4 - Friday

Q5- Stars

“What we don't understand is what we question and complain about. Sometimes we question our luck & God. But the deeper we understand spiritual laws, the easier it becomes to accept & embrace the perfection of this world. This understanding requires curiosity, silence & patience.”

# Our Network



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2) Momai Warehouse - Prerna Complex, Bldg. No. B-7 Gala No.1, Anjur-Dapode Road, Val Village, Bhiwandi-421305, Thane.

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