

EXCELLENCE
IN EXCIPIENTS



Breathing **Life** into
CHEMISTRY

ABOUT

MARUTI CHEMICALS

- Established as a partnership firm in 1995 having the patronage of more than 500 buyers spread across the globe
- Exclusively in manufacture and export of IN-ACTIVE PHARMACEUTICALS (EXCIPIENTS) business
- Exporting to more than 20 countries
- State FDCA license for all products

THE FACILITY

- Manufacturing facility, in 4000 sq.meters, designed and developed under expert technical professionals with respect to R&D, QA, QC and Production
- cGMP approved manufacturing facility for 1000 TPA of Excipients
- 200 TPA capacity of all Carbomer grades
- Located nearby Ahmedabad, Gujarat, India, one of the most facilitate city of India
- All excipients manufactured to meet all pharmacopoeial standards
- Facility regularly audited and approved by reputed national and multinational companies



LUBSOLV® [Sodium Stearyl Fumarate]



SPECIFICATION

Water

NMT 5.0%

Lead

NMT 0.001%

Heavy Metals

NMT 0.002% w/w

Saponification Value

Limit: 142.2 to 146.0 on anhydrous basis

Limit of Sodium Stearyl Maleate

NMT 0.25%

Limit of Stearyl Alcohol

NMT 0.5%

Assay

NLT 99.0 % and NMT 101.5 % w/w on dried basis

Storage

Preserve in well-closed Containers

Shelf Life

Five years from mfg. month

APPLICATIONS

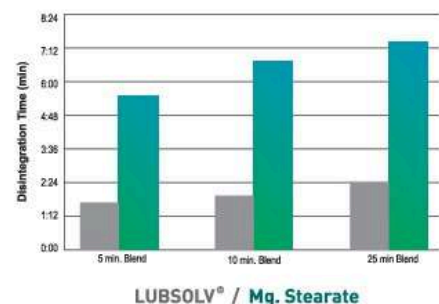
- An inert & hydrophilic super lubricant for tablets, granules, spansules and capsules
- Water-soluble lubricant for solid oral dosage
- Especially effective in Orally Disintegrating Tablets
- Effective Usage level 0.25–3.0 % w/w
- Lower insoluble residue upon dissolution or effervescent
- Effective super lubricant to avoid slippery situations
- Higher tablet hardness
- Lower ejection forces
- Less impact on disintegration times
- Less sensitive to blending time.
- Anti-adherent properties, a high melting point and a controlled particle size

ADVANTAGE

- Avoids problems like active incompatibility, over lubrication, and film formation in effervescent tablets
- Useful where the other lubricants fail to provide tablets of adequate stability, hardness, content uniformity, disintegration and dissolution rate

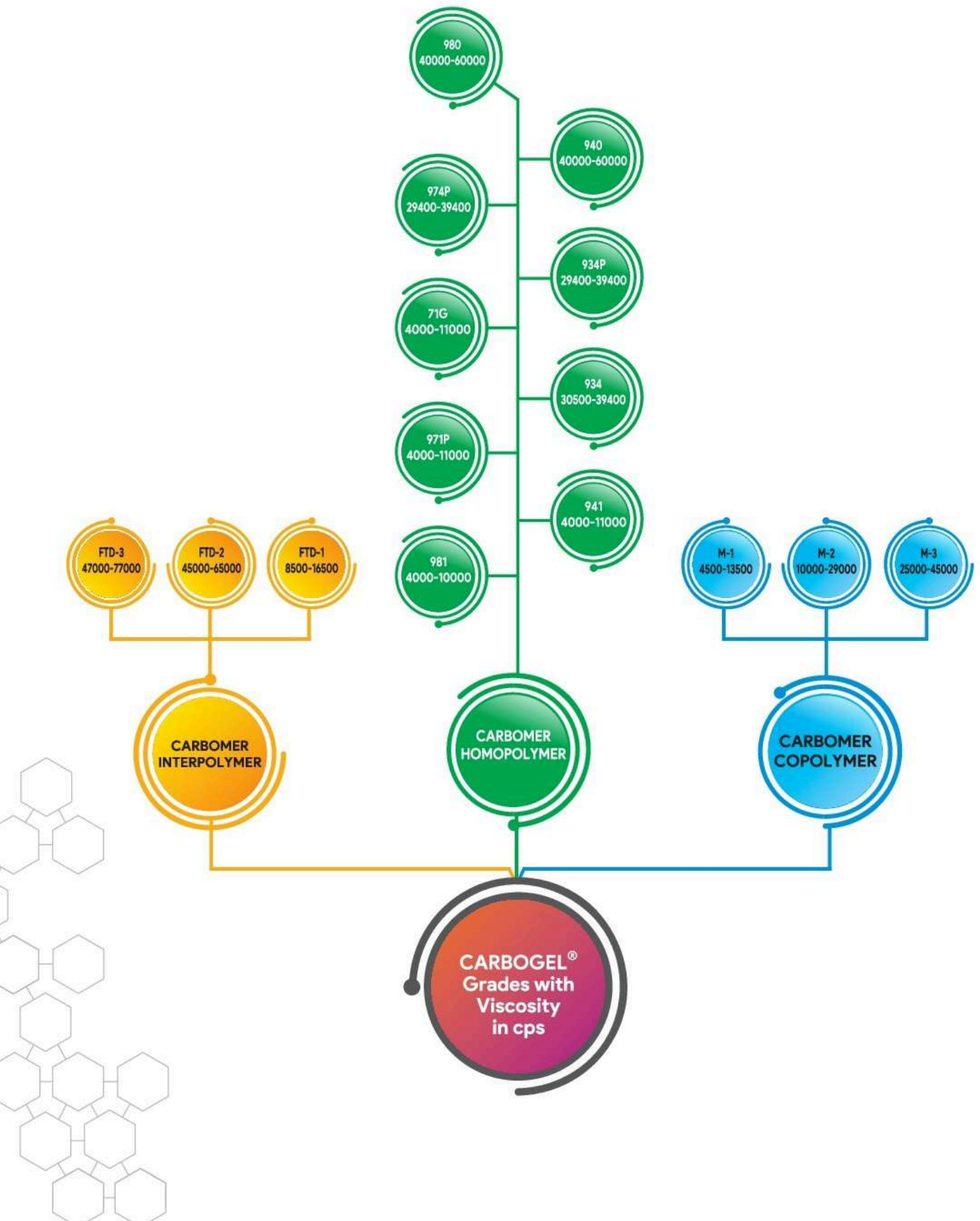
LUBSOLV® V/s Magnesium Stearate

- Less retardant effect on dissolution rate than magnesium stearate even after extended mixing or blending
- Effect of blend time on disintegration using 2% LUBSOLV® and Magnesium Stearate



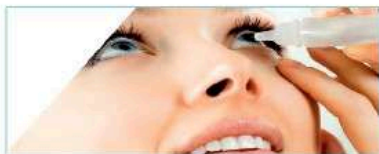
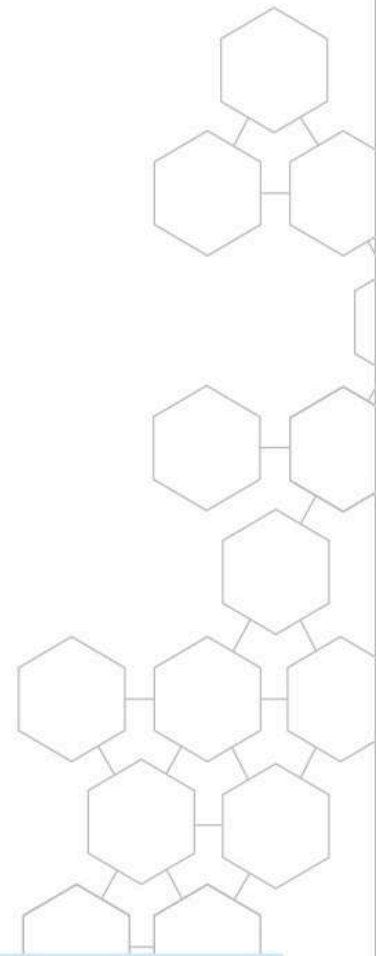
CARBOGEL® [Carbomer]

- Polymers of acrylic acid cross-linked with alkenyl ethers of poly alcohols
- High molecular weight macromolecules
- High affinity towards water, alcohol, glycols & other solvents capable of hydrogen bonding



CARBOGEL® VARIOUS GRADES APPLICATIONS

- **CARBOGEL® 940 / 980**
- SPARKLING CLEAR TRANSPERANT GEL with water or hydroalcoholic medium
- Most EFFICIENT THICKNER among all grades
- EXCELLENT SPARKLING & CRYSTAL CLEAR transparency at high viscosity
- Wide use in COSMETIC & EXTERNAL PHARMACEUTICAL preparations
- **CARBOGEL® 934**
- THICK FORMULATIONS like Gel
- TOPICAL EMULSIONS like skin, hair & moisture Creams
- PERMANENT STABILITY at high viscosity
- SHORT FLOW PROPERTIES in aqueous systems like cosmetics & spray
- **CARBOGEL® 941 / 971P**
- PERMANENT EMULSIONS & SUSPENSIONS at lower viscosities
- EXCELLENT TRANSPERANT GEL among other grades for Ionic System
- More effective hydrogen bonding thickening than other grades of Carbogel®
- EMULSION STABILIZER in Cosmetic products
- **CARBOGEL® 934P / 974P / 71G**
- HIGH PURITY GRADE for Oral Pharmaceutical dosage like gel, lotion, oral liquid, suspension & emulsion, ophthalmic gel / ointment
- TRANSDERMAL DRUG DELIVERY preparations
- TASTE MASKING for certain APIs
- TABLET BINDER
- SUSTAIN RELEASE Formulations
- **CARBOGEL® M GRADES**
- HYDROALCOHOLIC GELS
- EASY TO DISPERSE & SALT TOLERANT compare to other Carbogel® grades
- LESS TACKY FEEL than traditional Carbogel® grades
- CLEAR, THICK GEL for ionic gel like aloe gel
- EXCELLANT CLARITY & VICOSITY in HYDROALCOHOLIC GELS
- **CARBOGEL® FTD GRADES**
- Most suitable grades for surfactant and ions containing formulations



BIO-ADHESIVES

980 | 971 | 974P | 934P | M-1 | M-2 | 971P | 981



SUSPENSIONS

974P | 934P | 971P



LOTIONS

934 | 934P | 974P | 971P | 981 | 941 | M-1 | M-2 | M-3



CREAMS

940 | 980 | 974P | 934 | 934P | M-1 | M-2 | M-3



SOLID DOSAGE

71G | 971P | 974P | 934P



GEL

940 | 980 | 934 | 971P | 934P | 974P | 990
941 | 996 | M-1 | M-2 | M-3

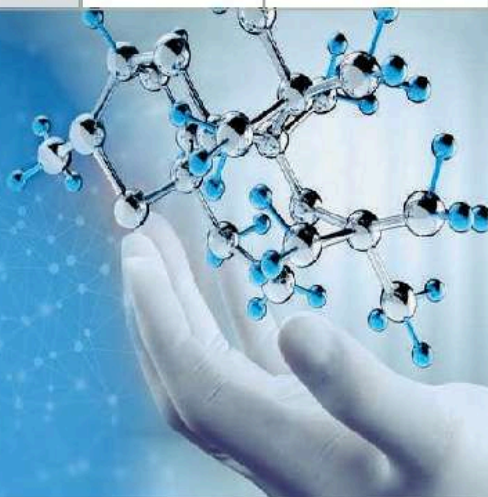
TABLET COATING

ENTRAGIT™ [Methacrylic Acid Co-Polymer]

Applications	ENTRAGIT™ GRADES	Physical Form	Dissolution Profile	Advantages
PROTECTIVE COATINGS				
Insulating coatings for: Moisture barrier Taste masking Odor masking Light protection	ENTRAGIT™ E-PO100	Powder	Soluble in gastric juice up to pH 5.0	Low viscosity High pigment binding Excellent adhesion Low weight gain
	ENTRAGIT™ E-S12.5	Solution	Swellable and permeable above pH 5.0	
	ENTRAGIT™ E-G100	Granules		
ENTERIC COATINGS				
Drug release in Duodeum	ENTRAGIT™ L-100-55	Powder	Dissolution at pH 5.5	Smooth and stable enteric coatings with fast dissolution in the upper bowel
	ENTRAGIT™ L-30 D	30% aq. dispersion		
Drug delivery in Jejunum	ENTRAGIT™ L-100	Powder	Dissolution at pH 6.0	Granulation of drug substances in powder form for controlled release
	ENTRAGIT™ L-12.5	Solution		
Drug delivery in Colon	ENTRAGIT™ S-100	Powder	Dissolution at pH 7.0	Site specific drug delivery in intestine by combinations of L or S grades of ENTRAGIT™ Variable release profile
	ENTRAGIT™ S-12.5	Solution		
	ENTRAGIT™ FS-30 D	30% aq. dispersion		
SUSTAINED-RELEASE COATING				
Sustained release formulations	ENTRAGIT™ RLPO-100	Powder	Insoluble High permeability pH Independent Swelling	Sustained release formulations combinations of RL and RS grades in different ratios
	ENTRAGIT™ RL-30 D	30% aq. dispersion		
	ENTRAGIT™ RL-12.5	Solution		
	ENTRAGIT™ RL-G100	Granules		
	ENTRAGIT™ RS-PO100	Powder	Insoluble Low permeability pH Independent Swelling	Suitable for matrix structures
	ENTRAGIT™ RS-30 D	30% aq. dispersion		
	ENTRAGIT™ RS-12.5	Solution		
	ENTRAGIT™ RS-G100	Granules		

pH - dependent

pH - independent



SUPER DISINTEGRANTS

HYSWEL® [Sodium Starch Glycolate]

HYSWEL® Sodium Starch Glycolate is a partially cross-linked carboxy methyl Starch (Maize or Potato)

Disintegration Mechanism

HYSWEL® absorbs water many times its own weight of water

Quick water penetration and powerful swelling results in fast disintegration of solid dosage

HYSWEL® has been optimized for source of starch, degree of cross-linking and degree of substitution which gives rapid water uptake without the formation of a viscous gel that may impede water penetration into the tablet

Applications

HYSWEL® A super disintegrant for tablet, granules, spansules and capsule.

Usage level 1-5%

Effective in both when used intra granularly or extra-granularly or when divided between these two

Can be used in wet granulation and direct compression

Can be used in combination with Croscarmellose sodium

V-DI-SOL® [Croscarmellose Sodium]

V-DI-SOL® Croscarmellose Sodium is a sodium salt of cross-linked carboxymethyl cellulose

Disintegration Mechanism

In V-DI-SOL® cross-linking of NaCMC reduces hydrophilicity of NaCMC

Quick water penetration and powerful swelling without affecting fibrous integrity results in fast disintegration

V-DI-SOL® disintegrates tablet by creating strong force due to hydrophilic nature

V-DI-SOL® is optimized for its water uptake and degree of substitution

Applications

V-DI-SOL® A super disintegrant for tablet, granules, spansules and capsule

Usage level 1-5%

Effective in presence of insoluble to soluble filler-binders like MCC, DCP, mannitol and lactose

Can be used in wet granulation and direct compression

First Choice when non-starch disintegrant is required

F-DI-SOL™ [Carboxymethylcellulose Calcium]

F-Di-Sol™ Carboxymethylcellulose Calcium is a Calcium salt of partially substituted poly (carboxymethyl) ether of cellulose

Disintegration Mechanism

F-Di-Sol™ has high capillary action, rapid swelling properties, efficient fluid channeling

F-Di-Sol™ has compatibility with most actives and excipients and has excellent long-term stability

Due to fibrous nature, It imparts high compressibility and super disintegration properties

Applications

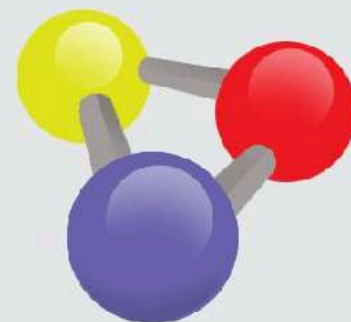
F-Di-Sol™ has faster dissolution aid for tablets containing ingredients having poor solubility

F-Di-Sol™ has higher ability to absorb water due to its chelate structure and calcium component

F-Di-Sol™ is a low cost in use

F-Di-Sol™ has High mechanical strength based on their high compressibility

Disclaimer: Our technical advice on the user of our material is given without obligation. The buyer is responsible for the application and processing of our products. Technical data concerning our products are representative values for general guidance



Monosodium Fumarate

An acidulant for juice, baking powder for bread and cakes

Food additive that sufficiently covers the weak points of fumaric acid

APPLICATIONS

Maintains fresh flavor

The freshness of the fruit juice contained inside the fruit is preserved by shutting out the open air from the liquid cavity and maintains a suitable oxidation-reduction potent.

Mechanism of Action

- The cell membrane of Fruit will be destroyed during the squeezing, concentration and storage.
- When it is exposed to open air, the freshness of the natural flavor will be lost through oxidation.
- Monosodium Fumarate when added to this unfresh taste, it produces a suitable resolution effect by the double bond formation.
- It preserves necessary oxidation-reduction potent for fresh juice and thus will maintain the fresh flavor.

- The buffer effect brings up a natural acid flavor which natural juice preserves.
- A considerable amount of organic acids are recognized in the natural juice and the buffer effect that occurs in the juice itself helps to prevent the acid taste to exceed.
- End-product retains the natural, mild acid taste equally to what natural juice preserves by adding the proper dose of organic acids and at the same time, adding Monosodium Fumarate during the process of manufacturing fruit juice.
- Using together with citric acid improves the acidity.
- Widely appreciated amongst the beverage industry.
- Using together with citric acid improves the acidity

SPECIFICATIONS

Description

White Crystalline Powder. Odorless & characteristic acid taste.

CAS Registry Number
5873-57-4

Structure



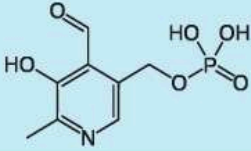
Solubility Comparison in 100 cc water (g)

Temp	Fumaric Acid	Monosodium Fumarate
25°C	0.63	6.86
40°C	1.07	10.74
60°C	2.40	18.15
100°C	5.67	30.20

Fumaric acid has a disadvantage on a difficulty to dissolve through water but Monosodium Fumarate has benefits by dissolving 10 times better.

Pyridoxal-5-Phosphate

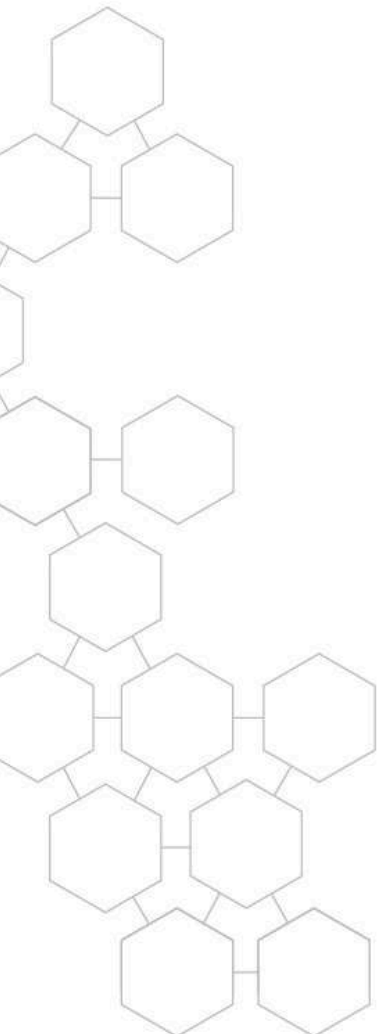
Product Details

Product	Pyridoxal-5-Phosphate, P5P, the phosphorylated form of Pyridoxine (Vitamin B6). Water soluble active form of vitamin B6. Don't require conversion in the liver.
CAS#	853645-22-4 ;41468-25-1 (monohydrate)
Formula	$C_8H_{10}NO_6P \cdot H_2O$
Structural Formula	
Class	Vitamins
Nutritional Ingredients	Amino acids product type

Benefits

- Beneficial for inflammatory conditions
- Important for digestive health
- Required for a proper histamine response
- Necessary for optimal brain & nervous system health
- Helps to sleep and normalizes sleep-wake cycles
- Beneficial agent for anxiety
- Deficiency contributes to depression
- Supports weight loss efforts
- Helps reduce pain
- Reduce the risk of cancer
- May lower risk for cardiovascular disease
- Helpful for anemia
- Helps balance blood sugar
- Can strengthen bones
- Important for skin health

VALUED CUSTOMERS



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