



Distributed by:
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GBi is a leading GMP manufacturer of ingredients for the Nutraceutical, Industrial, Food, Beverage and Pharmaceutical industries. We are committed to providing the highest quality products and reliability of supply for our customers. Gadot has more than 50 years of experience delivering high bioavailable products including tailor-made solutions and soluble minerals.

Our Portfolio includes but is not limited to:

- **Calcium:** Citrate, Phosphate
- **Magnesium:** Citrate, Phosphate, Gluconate
- **Zinc:** Citrate, Phosphate, Gluconate
- **Potassium:** Citrate
- **Sodium:** Citrate
- **Specialties:** Tailor-made solutions and Mineral Blends

Please contact our Technical Sales Team to explore the best solution for your application.

A collage of four images: a strawberry tart, a smoothie with a 'NON-GMO PROJECT VERIFIED' logo, a bowl of soy milk with 'Soy Milk' written on the jar, and a woman in a green shirt drinking from a water bottle. A central dark grey box contains the text 'GADOT BIOCHEMICAL INDUSTRIES LTD. ENRICHING NATURE FOR YOU'.

**GADOT
BIOCHEMICAL
INDUSTRIES LTD.**
ENRICHING NATURE FOR YOU

Calcium Salts



Calcium is the most abundant mineral in the body and is required to build and maintain strong bones, regulate muscle contraction (including contraction of the heart muscle) and a co-factor for many enzymes. Calcium is the most important universal signaling ion in the body.

Applications / Functions:

- Fortification of Food & Beverage
- Dietary Supplements
- Juice Fortification
- Soy & Nut Milk
- Dairy Products
- Baby Nutrition
- Fruit-Preps - Gelation
- Anti-Caking
- Firming Agent
- Acidity Regulator

TriCalcium Citrate

TriCalcium Citrate is a well-known, highly bioavailable organic calcium source which can be used in a variety of applications.

Gadot Grade	Description	Ca %	Recommended Application
TCC M2	Typically 0.9 micron	21	Dairy fortification, fruit preps, infant, chewables
TCC M5	Typically 1.15 micron	21	Dairy fortification, fruit preps, infant, chewables
TCC M30	1.6 - 78 micron	21	Juice fortification, fruit preps, toothpaste, chewables
TCC HD	43 - 120 micron	21	Toothpaste, tablets, capsules, firming
TCC Anhy	Anhydrous	24	Dry Mixes, beverage powder, meal replacement
TCC TG	Tablet grade	21	Tablets
GadoCal+	Soluble	10	Milk/Milk alternatives, soft beverages, acidic juice
GadoCal K	Ca + K	15	Milk/Milk alternatives

TriCalcium Phosphate

TriCalcium Phosphate is an inorganic calcium source, with a relatively high calcium content used in many applications.

Gadot Grade	Description	Ca %	Recommended Application
TCP HD	Typically 60-80 micron	37	Anti-caking, tablets, firming agent, sugar icing, dental care
TCP LD	25 micron max	37	Milk fortification, infant formula
TCP M3	Typically 2-4 micron	37	Soy milk, nut milk, infant formula, milk fortification
TCP EPS BB	EPS	37	Dispersing agent in EPS industry (for suspension polymerization only)
TCP EPS SB	EPS	37	Dispersing agent in EPS industry (for suspension polymerization only)
TCP TG	Tablet Grade	37	Tablets



Magnesium Salts



Magnesium is the fourth most abundant mineral in the human body. It is an essential mineral needed for more than 300 cofactors and is a crucial component of the adenosine triphosphate (ATP) metabolism. Magnesium is required for DNA and RNA synthesis, reproduction, and protein synthesis. Moreover, magnesium is essential for the regulation of muscular contraction, blood pressure, insulin metabolism, cardiac excitability, vasomotor tone, nerve transmission and neuromuscular conduction.

Applications / Functions:

- Dietary Supplements
- Confectionary
- Clear Beverages
- Sports Nutrition
- Instant Drink Mixes
- Infant Formula
- Food Supplements
- Fortification of Food & Beverages

TriMagnesium Citrate

Gadot Grade	Description	Mg %	Recommended Application
TMC Nonahydrate	Fully neutralized salt of Mg and Citric acid	12.5	Tablets and food fortification
TMC M5	Nonahydrate with micronization technology	12.5	Turbid beverages / dispersible, dry mixes, sachets, capsules
TMC Anhydrous	Soluble	15-16	Clear beverages, dry mixes, capsules, sports nutrition
GadoMag+	Special soluble formulation	12.5	Clear beverages, effervescent tablets, dry mixes, capsules
GadoMag+8	Special soluble formulation	7.5-8.5	Clear beverages, effervescent tablets, dry mixes, capsules
GadoMag K	Mg + K	10	Milk/milk analogues, UHT drinks, dry mixes, capsules
GadoGo	Mg direct to mouth formulation	11	Sports nutrition, dietary supplements

Magnesium Citrate

Gadot Grade	Description	Mg %	Recommended Application
MGC 14%	Special granulated formulation based on application	14	Tablets, capsules
MGC 16%		16	
MGC 30%		30	

Magnesium Phosphate

Gadot Grade	Description	Mg %	Recommended Application
Magnesium Phosphate	Mg Phosphate	14	Infant formula
Magnesium Phosphate M10	Mg Phosphate with Micronization Technology	14	Infant formula

Magnesium Gluconate

Gadot Grade	Description	Mg %	Recommended Application
Mg Gluc	Soluble magnesium	5.1 - 5.8	Dietary supplements, personal care, clear beverages



Potassium Salts



Potassium is the third most abundant mineral in the body. Roughly 98% of the potassium in our body is found intracellular. It helps regulate fluid balance, muscle contractions and nerve signals. A high-potassium diet can help reduce blood pressure and water retention, protect against stroke and prevent osteoporosis and kidney stones. Potassium is also used as an acidity regulator, buffering agent, flavor enhancer and as a replacement of Sodium salts.

Applications / Functions:

- Soft Drinks
- Isotonic Beverages
- Juices
- Infant Nutrition
- Toothpaste
- Sodium Replacement

TriPotassium Citrate

Gadot Grade	Description	K %	Recommended Application
TPC FG	Fine Granular < 150 microns 10% max	36	Sodium replacement, electrolyte beverages, juice, infant nutrition
TPC SG	Standard Granulation <300 microns 10% max		

Sodium Salts

Sodium is the most abundant cation in the extracellular fluid and maintains the water balance in the body.

TriSodium Citrate

Gadot Grade	Description	Na %	Recommended Application
TSC FG	Fine Granular < 150 microns 10% max	23	Electrolyte beverages, soft drinks, juices, frozen food, cereals, dairy
TSC SG	Standard Granulation <300 microns 10% max		
TSC Anhydrous	soluble	26.7	Detergents, instant drinks

Zinc Salts



Zinc is an essential trace element that is vital for our immune system. It functions as a cofactor for numerous enzymes, including those involved in DNA and RNA replication, protein synthesis, insulin production and brain development. Despite the importance of this mineral, our bodies cannot store excess zinc as it naturally does with some other minerals and vitamins, so continuous dietary intake is required.

Applications / Functions:

- Dietary Supplements
- Dental Care
- Personal Care
- Infant Nutrition
- Sports Nutrition
- Food Fortification

Tri Zinc Citrate

Gadot Grade	Description	Zn %	Recommended Application
TZC	< 150 microns	31-33	Dietary supplements, dental care, personal care, infant nutrition
TZC M3	Micronized 2 - 4 microns	31-33	Additional application: Gummies
Chewable Zinc	Zinc Citrate + Vitamin C	20 mg	Ready to use tablets
GadoZinc+	Soluble Zinc Citrate	25-30	Olive preservative, tablets, gummies, beverages, RTD mixes

Zinc Gluconate

Gadot Grade	Description	Zn %	Recommended Application
ZnGluc	High Solubility Zinc Source	14	Personal care, dietary supplements

Tablets



Gadot provides tailor-made solutions along with ready formulated tablet grade options developed for specific applications based on the desired mineral content and granulation requirements. A variety of product grades available enabling tablet production with various properties such as hardness, disintegration time, low friability, etc. Pre-granulated or directly compressible powders are available upon request.

Gadot Product Grade	Description
TCC TG	TriCalcium Citrate, 21% Ca
MgC 11%	Magnesium Citrate, 11% Mg, added binder
MgC 14%	Magnesium Citrate, 14% Mg, added binder, added MgO
MgC 16%	Magnesium Citrate, 16% Mg, added binder, added MgO
MgC 30%	Magnesium Citrate, 30% Mg, added binder, added MgO
Cal2Mag	Calcium 9%, Magnesium 4.5%, added binder
TCP Granulated	TriCalcium Phosphate, 37% Ca
Fructose DC	Fructose 95%, added binder



Contact Us



Our natural ingredients accommodate our client's specific needs and contributes to healthier and tastier products with high bioavailability.

We would be happy to answer any questions or technical inquiries.

Please contact us at one of our offices or send us an email: contact@gadotbio.com

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