



galenIQ™ makes  
medicine taste better.

galenIQ™ – the sweet filler binder

Isomalt (Ph. Eur., BP, USP-NF, JP)

galenIQ™  
a brand of beneo

## The palatability enhancer.



Choosing the right filler-binder can enhance the overall taste and mouthfeel of pharmaceutical and nutraceutical products. Medicine that taste good can considerably increase the acceptance by certain patient groups like children, the elderly and people with chronic conditions. It is also of importance in the growing field of veterinary medicine.

galenIQ™ makes medicine taste better. It is a highly functional filler-binder that stands out for its well-balanced sweetness that reduces the bitter taste of APIs and helps to mask the unpleasant taste of ingredients such as plant extracts. galenIQ™ is the pharmaceutical grade of BENEÓ's Isomalt that is derived from beet sugar. Its pleasant mouthfeel is very similar to that of sucrose and it has no significant off-taste or aftertaste.

Besides its good taste, the unique morphology and ease of use of galenIQ™ open the door to the development of innovative pharmaceutical products.

## Key benefits of galenIQ™.

**High dilution**  
 Non-cariogenic  
 Sugar-like, natural taste  
 Chemically stable  
 High flowability  
 Non-hygroscopic  
 Sugar-free  
 Easy to use  
**galenIQ™**  
 Promotes high content uniformity  
 Well-defined particle size distribution  
 Different solubilities  
 Soluble in water  
 Suitable for diabetics  
 Non-animal origin

## Technical functionality in a broad spectrum of applications.

The galenIQ™ range is multi-functional. It comprises different grades of solubility with varying particle size. This makes it a highly flexible excipient. galenIQ™ can easily be applied to tablets and powdered formulas, to coat solid dosage forms and as a component in hot melt extrusion processes and liquid applications.

### The excipient of choice for:



Chewable Tablet



Sachet / Stick Pack



Powder Blend



Lozenge Tablet



Probiotic Tablet



Mini Tablet



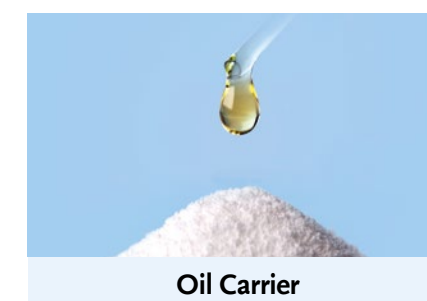
Effervescent Tablet



Wet Granulation



High Boiled Lozenge



Oil Carrier



Pan Coating



Syrup

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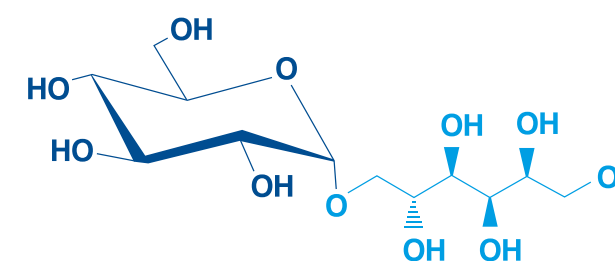
## Regulatory information and quality.

BENEO closely monitors the global regulatory framework and actively invests in research and development to strengthen the scientific foundation of galenIQ™. Thanks to being produced in a fully owned, state-of-the-art facility, our excipient complies with the highest quality and safety standards.

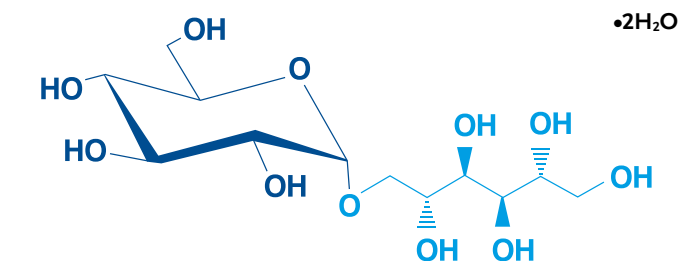
galenIQ™ is manufactured under cGMP conditions according to the IPEC-PQG requirements for pharmaceutical bulk excipients. galenIQ™ complies with the current Ph. Eur., BP, USP-NF and JP monographs for Isomalt and is approved for use in China. galenIQ™ is a white, odourless, water soluble, crystalline substance of non-animal origin, derived from sucrose.

### Structural formula of Isomalt, a mixture of two disaccharide alcohols.

galenIQ™ is produced from sucrose derived from sugar beet.



6-O-α-D-Glucopyranosyl-D-sorbitol (1,6-GPS)



1-O-α-D-Glucopyranosyl-D-mannitol dihydrate (1,1-GPM)

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Different solubilities

Soluble in water

Suitable for diabetics

Non-animal origin

### Physical properties\* of galenIQ™

	galenIQ™ 720	galenIQ™ 721	galenIQ™ 800	galenIQ™ 801	galenIQ™ 900	galenIQ™ 960	galenIQ™ 981
Grade	agglomerated	agglomerated	milled	milled	sieved	sieved	sieved
Preferred application	direct compression, powder blend	direct compression, powder blend	wet granulation, agglomeration	High-shear granulation, Fluid bed agglomeration	high-boiled lozenge	capsule filling, dry blend, hot melt extrusion	pan coating, syrup
Composition GPS/GPM	1:1	3:1	1:1	3:1	1:1	1:1	3:1
Solubility in water at 20 °C (g/100 g)	25	42	25	42	25	25	42
Particle size distribution (µm)	d <sub>10</sub> 95 d <sub>50</sub> 220 d <sub>90</sub> 360	d <sub>10</sub> 90 d <sub>50</sub> 210 d <sub>90</sub> 360	d <sub>10</sub> 5 d <sub>50</sub> 15 d <sub>90</sub> 45	d <sub>10</sub> 5 d <sub>50</sub> 15 d <sub>90</sub> 45	d <sub>10</sub> 660 d <sub>50</sub> 1510 d <sub>90</sub> 2560	d <sub>10</sub> 270 d <sub>50</sub> 400 d <sub>90</sub> 530	d <sub>10</sub> 260 d <sub>50</sub> 520 d <sub>90</sub> 800
Method	mechanical sieve shaker	mechanical sieve shaker	laser diffraction	laser diffraction	mechanical sieve shaker	mechanical sieve shaker	mechanical sieve shaker
Bulk density (g/l)	410	400	500	500	850	820	780
Total water K. F. (%)	5,0	2,9	2,7	2,6		2,3	2,8
Loss on drying (%) (10 <sup>5</sup> pa, 7 h at 25 °C)	0,21	0,12	0,26	0,21		0,12	0,02

\* This information on average values is presented in good faith, but warranty to accuracy of results is not given. It is offered solely for your consideration, investigation and verification. Typical analysis data fall within the range of specification of galenIQ™.

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Find us on:   

BENEO is a member of the International Pharmaceutical Excipients Council (IPEC) and produces galenIQ™ under GMP conditions for pharmaceutical excipients.

**Contact one of our experts for your product development with galenIQ™.**



**Visit our Website.**

Just scan the QR code on your phone.