BARTEK

BENEFITS OF MALIC AND FUMARIC ACIDS BY PRODUCT CATEGORY

Legend:

M=Primary Benefit, Malic Acid

m=Secondary Benefit, Malic Acid

F=Primary Benefit, Fumaric Acid

f=Secondary Benefit, Fumaric Acid

Benefit	**Beverages**	Alcoholic Apple Beverages	Fortified Fruit Wines	Wine	Beverage Powder Mixes	Carbonated Beverages	Carbonated Clear Beverages	Fruit Juice Drinks	Vegetable Juice Blends	Dairy Beverages	Fortified Beverages	Sports Beverages	Iced Teas	Dilutables/Concentrates	Sugar-Free/Low Calorie Beverages	**Confectionery**	Chewing Gums	Compressed & Fizzy Candies	Fortified Candies	Hard Candies	Mint-flavoured Confections	Novelty Candies	Snack Confections	Soft Chewy Candies	Sugar/Acid Coated Candies	Sugar-free/Low Fat Candies	Sugar-free Chewing Gums	**Bakery**	Rye & Sourdough Breads	English Muffins	Cereals	Fruit Bars & Desserts	Fruit-Filled Cookies	Low-calorie/Low-fat Fruit Bars & Desserts	Corn Tortillas	Wheat Flour Tortillas	**Savoury Products**	Pickled Vegetables	Savoury Powder Mixes and Sauces	Savoury Snack Foods	**Fruit Based Products**	Fruit Fillings	Fruit Soups	Jams & Jellies	**Desserts**	Acidified Dairy Products (e.g., Yoghurt)	Frozen Desserts	Gelled Desserts	Ice Creams	**Other Applications**	Personal Care Products	Supplements	Non-Food Products	Antimicro/Preservative Fruits & Vegetables	Antimicro/Preservative Fruits	Antimicro/Preservative Meats
Enhances Flavour		M	M	M	M	M	M	M	M	M	M	M	M	M	M		M	M	M	M	M	M	M	M	M	M	M				M	M	M	M				M	M	M		M	M	M		M	M		M			M		M	M	M
Smoother, More Natural-Tasting		M	M	M	M	M	M	M	M	M	M	M	M	M	M		M	M	M	M	M	M	M	M	M	M	M				M	M	M	M				M	M	M		M	M	M		M	M		M			M		M	M	M
Sustains Malolactic Fermentation		M	M	M																																																					
Prevents Turbidity		M	M	M			M	M	M		M																																														
Dissolves Rapidly		m	m	m	M	m	m	m	m	m	m	m	m	m	m		m	m	m	M	m	m	m	m		m					M	m	m	m				M	m			m	M	m		m	m		m		m	m	M	M	M	M
Can Mask Nutrient and Isotonic Salt Flavours											M	M							M																																			M				
Improves Sweet/Sour Balance													M		M						M					M	M							M																								
Boosts Aspartame Sweetness															M																																										
Boosts Aromatic Flavour Intensity															m																																										
Retards Rancidity by Chelation of Metal Ions								m											m			m	m	m							m								m	m																	
Prolongs Sourness																	M	m	m	m		m	m	m	m	m	M																														
Provides More Sourness					F	M	m	F	m	M	m	m	m	M	m		mf	M	m	M		M	M	m	M	m	mf		F	F		M	M	m					M	M		M	m	M		M	M	F	M							
Reduces Ingredient Cost					F	M	m	F	m	M	m	m	m	M	m		mf	M	m	M		M	M	m	F	m	mf		F	F		M	M	m	F	F			M	M		M	m	M		M	M	F	M							
Reduces Unit Weight					F	M	m			M				M																									M	M								F								
Extends Shelf Life					F															M					F																							F								
Reduces Package Cost					F																				f																							F								
Provides More Buffering Capacity								F																M								M	M	M								M		M													
Provides Astringency								F																																																	
Is Non-Hygroscopic					F			f																	F				F	F					F	F												F			F						
Improves Dough Machinability																													F	F						F																					
Increases Porosity																														F																											
Yields Uniform Dry Blends																																			F																						
Replaces Leavening Acids																																				F																					
Improves Facial Skin Conditions																																																				M				
Improves Denture Cleaning Tablets																																																				M				
Improves Antidandruff Treatments																																																				F				
Provides Effervescence																																																				F				
Relieves Fibromyalgia Symptoms																																																					M			
Part of Antimicrobial Composition																																																						M		

Bartek Ingredients Inc. • 421 Seaman St. • Stoney Creek, Ontario L8E 3J4 • Canada
Tel: (905) 662-3292 • (905) 662-1127 • Order desk: 1-800-263-4165 • Fax: (905) 662-8849
www.bartek.on.ca • sales@bartek.on.ca