




















 Product	Vegetable Juice Color 1000 Series	Vegetable Juice Color Red 1000 Series	Vegetable Juice Color 2000 Series	Vegetable Juice Color 3000 Series	Vegetable Juice Color 4000 Series	Grape Juice and Grape Skin Extract Color	Vegetable Juice Color 6000 Series	Tomato Lycopene	Carmine	Cochineal Extract / Carminic Acid
 Shade	Pink/Raspberry Red to Violet	Pink/Raspberry Red to Violet	Pink/Raspberry Red to Violet	Peach to Strawberry Red	Pink to Red	Pink to Red	Yellowish-Red	Peach to Red Orange	Pink to Red	Peach to Orange Pink to Red
 Source	Purple Sweet Potato	Purple Sweet Potato	Red Cabbage	Black Carrot (organic available)/ Purple Carrot	Red Beet (organic available)	Grape	Radish	Tomato	Cochineal	Cochineal
 Form	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid	Liquid, Powder	Liquid, Powder
 21 CFR Section	73.260	73.260	73.260	73.260	73.260	73.170 73.169	73.260	73.585	73.100 73.1100 73.2087	73.100 73.1100
 Sol	WS	WS	WS	WS	WS OD	WS	WS	WD OD	WS OD	WS
 Typical Usage Level	0.005-0.1%	0.005-0.1%	0.005-0.1%	0.01-0.2%	0.001-0.3%	0.05-0.5%	0.001-0.05%	0.05-0.5%	0.0005-0.1%	0.0005-0.1%
 Light Stability	Excellent	Excellent	Excellent	Very Good	Fair	Good	Excellent	Good	Excellent	Excellent
 Heat Stability	Excellent	Excellent	Excellent	Very Good	Fair	Good	Excellent	Good	Excellent	Excellent
 Suitable pH Range	2.0-4.5	2.0-6.0	2.0-4.5	2.0-4.5	4.0-8.0	2.0-4.0	2.0-6.0	3.0-9.0	3.5-8.0	2.0-8.0
 Typical Applications	Beverages, Fruit, Bases, Confections, Yogurt, Dessert Toppings	Beverages, Fruit, Bases, Confections, Yogurt, Dessert Toppings	Beverages, Fruit, Bases, Confections, Yogurt, Dessert Toppings	Beverages, Fruit, Bases, Confections, Yogurt, Dessert Toppings	Powdered Beverages, Dairy Products, Frozen Desserts, Cereal, Chips	Beverages, Fruit Bases, Jams, Confections	Beverages, Fruit, Bases, Yogurts	Beverages, Confections, Ice Cream, Meat	Beverages, Fruit, Bases, Confections, Casings, Cosmetics	Beverages, Fruit, Bases, Confections, Casings, Sauces



 Product	Paprika 2000 Series	Annatto	B-Apo-8'-Carotenal¹	Carrot Color 8000 Series	B-Carotene¹	Riboflavin¹	Curcumin Extract / Turmeric Oleoresin	Caramel Class I-IV	Non Caramel Browns	Titanium Dioxide	Spirulina Extract	Jagua Blue
 Shade	Peach to Orange	Vanilla to Yellow-Orange to Orange	Vanilla to Yellow-Orange to Orange	Vanilla to Orange-Yellow	Vanilla to Yellow to Orange	Vanilla to Yellow	Vanilla to Greenish-Yellow	Golden Brown, Red Brown, and Dark Brown	Golden Brown to Cinnamon Brown	White, Opacifier	Pale to Sky Blue	Blue to Navy Blue
 Source	Paprika Oleoresin	Annatto Seed (organic available)	B-Apo-8'-Carotenal	Carrot Oil	B-Carotene	Riboflavin	Turmeric (organic available)	Food-grade Carbohydrates	Apples	Titanium Dioxide	Spirulina (organic available)	Jagua Fruit
 Form	Liquid, Powder	Liquid, Powder, Paste	Liquid	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder, (organic available)	Liquid, Powder	Liquid, Powder	Liquid, Powder	Liquid, Powder
 21 CFR Section	73.345	73.30 73.1030 73.2030	73.90	73.300	73.95 73.1095 73.2095	73.450	73.615	73,85	73,25	73.575 73.1575 73.2575	73.530	73.225
 Sol	WD OS	WS WD OS	WD OS	WD OS	WD OS	OD WS	WD OS	WS OD	WS	WD OD	WS OD	WS
 Typical Usage Level	0.001-0.5%	0.001-0.2%	0.001-0.015%	0.01-0.1%	0.001-0.1%	0.001-0.1%	0.005-0.01%	0.001-0.5%	0.05-3%	0.01-1.0%	0.001-0.1%	0.001-0.1%
 Light Stability	Good	Fairly Good	Good	Fairly Good	Good	Very Good	Fair	Excellent	Very Good	Excellent	Fair	Good
 Heat Stability	Very Good	Very Good	Very Good	Good	Very Good	Very Good	Very Good	Excellent	Very Good	Excellent	Fair	Good
 Suitable pH Range	3.0-8.0	3.0-8.0	N/A	3.0-8.0	3.0-8.0	N/A	2.5-8.0	2.0-10.0	2.0-10.0	1.0-14.0	4.0-9.0	3.0-7.0
 Typical Applications	Beverages, Fruit Bases, Sauces, Spice Blends, Snack Foods	Yogurt, Cheese, Cosmetics, Ice Cream, Casings	Cheese, Baked Goods, Salad Dressings, Candy Beverages, Yogurt	Dairy Products, Beverages, Dry Mixes, Noodles	Beverages, Dry Mixes, Oil, Egg Whites, Cheese	Beverages, Tablets, Confections	Condiments, Dressings, Ice Cream, Cereals	Beverages, Sauces, Seasonings, Frozen Desserts, Baked Goods, Candy, Yogurts	Beverages, Sauces, Seasonings, Frozen Desserts, Baked Goods, Candy, Yogurts	Baked Goods, Cheese, Tablets, Cosmetics	Frozen Desserts, Tablets, Chewing Gum, Candy Yogurt, Beverage Mixes	Dairy Drinks, Desserts, Cereal, Candy, Nutritional Beverages, Flavored Drinks, Frostings, Jams

1. Some are natural and some are nature identical and/or synthetic colors labeled as exempt colors.



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