



Food Ingredient Solutions, LLC.

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NATURAL COLOR SELECTION GUIDE

Product	Source	Form	21 CFR Section	Sol	Shade	Strength	Typical Usage Level	Light Stability	Heat Stability	Suitable pH Range	Typical Applications
Vegetable Juice Color 1000 Series	Purple Sweet Potato	Liquid	73.260	WS	Pink/Raspberry Red to Violet	E1 %=16	0.005-0.1 %	Excellent	Excellent	2.0-4.5	Beverages, fruit bases, confections
Vegetable Juice Color 2000 Series	Red Cabbage	Liquid, Powder	73.260	WS	Pink/Raspberry Red to Violet	E1 %=8-35	0.005-0.1 %	Excellent	Excellent	2.0-4.5	Beverages, fruit bases, confections
Vegetable Juice Color 3000 Series	Black/Purple Carrot	Liquid, Powder	73.260	WS	Peach to Strawberry Red	E1 %=3-18	0.01-0.2 %	Very Good	Very Good	2.0-4.5	Beverages, fruit bases, confections
Vegetable Juice Color 4000 Series	Red Beet	Liquid, Powder	73.260	WS OD	Pink to Red	0.3-1.5 % betanin	0.001-0.3 %	Fair	Fair	4.0-8.0	Dairy products, fruit bases
Grape Skin Extract 5000 Series	Grape Skin Extract	Liquid, Powder	73.170	WS	Pink to Red	E1 %=3-12	0.05-0.5 %	Fairly Good	Fairly Good	2.0-4.0	Beverages
Grape Color Extract 5010 Series	Grape Juice Concentrate	Liquid	73.169	WS	Yellowish-Red to Purplish-Red	E1 %=2-4	0.05-0.5 %	Fairly Good	Fairly Good	2.0-4.0	Fruit bases, jams, confections
Fruit Juice Color 5020 Series	Elderberry	Liquid, Powder	73.250	WS	Peach to Strawberry Red	E1 %=7-20	0.01-0.2 %	Good	Good	2.0-4.5	Beverages, fruit bases, confections
Vegetable Juice Color 6000 Series	Radish	Powder	73.260	WS	Yellowish-Red	E1 %=20-40	0.001-0.05 %	Excellent	Excellent	2.0-6.0	Beverages, fruit bases, yogurts
Carmine, High Tint Carmine, Very High Tint Carmine, Hydrosoluble Carmine	Cochineal	Liquid, Powder	73.100, 73.1100, 73.2087	WS OD	Pink to Red	2-80 % carminic acid	0.0005-0.1 %	Excellent	Excellent	3.5-8.0	Beverages, fruit bases, confections, casings, cosmetics
Purple Carmine	Cochineal	Liquid, Powder	73.100, 73.1100, 73.2087	WS OD	Lavender to Purple	3-50 % carminic acid	0.0005-0.1 %	Excellent	Excellent	4.0-8.0	Beverages, fruit bases, confections, cosmetics
Cochineal Extract / Carminic Acid	Cochineal	Liquid, Powder	73.100, 73.1100	WS	Peach to Orange, Pink to Red	2-95 % carminic acid	0.0005-0.1 %	Excellent	Excellent	2.0-8.0	Beverages, fruit bases, confections, casings, sauces

Product	Source	Form	21 CFR Section	Sol.	Shade	Strength	Typical Usage Level	Light Stability	Heat Stability	Suitable pH Range	Typical Applications
Canthaxanthin ¹	Canthaxanthin	Powder	73.75, 73.1075	WD	Peach to Reddish-Orange	E1% = 120	0.002-0.015%	Good	Very Good	2.0-8.0	Beverages, surimi, tomato products
Paprika 2000 Series	Paprika Oleoresin	Liquid, Powder	73.345	WD OS	Peach to Orange	225 –5000 ASTA	0.001-0.05%	Good	Very Good	2.0-8.0	Beverages, fruit bases, sauces
Annatto	Annatto Seed	Liquid, Powder, Paste	73.30, 73.1030, 73.2030	WS WD OS	Vanilla to Yellow-Orange to Orange	0.2-95% bixin or norbixin	0.001-0.2%	Fairly Good	Very Good	2.0-8.0	Yogurt, cheese, cosmetics, ice cream, casings
β-Apo-8' -Carotenal ¹	β-Apo-8' -carotenal	Liquid	73.90	OS	Yellow-Orange to Orange	20% min pure carotenoid	0.001-0.015%	Good	Very Good	N/A	Cheese, baked goods, salad dressings
Carrot Color 8000 Series	Carrot Oil	Liquid, Powder	73.300	WD OS	Vanilla to Orange-Yellow	E1% = 25-38	0.01-0.1%	Fairly Good	Good	2.0-8.0	Dairy products, beverages, dry mixes, noodles
β-Carotene ¹	β-Carotene	Liquid, Powder	73.95, 73.1095, 73.2095	WD OS	Vanilla to Yellow to Orange	E1% = 250-7500	0.001-0.01%	Good	Very Good	2.0-8.0	Beverages, dry mixes, oils, egg whites, cheese
Saffron 13000 Series	Saffron	Liquid, Powder	73.500	WS OD	Pale to Bright Yellow to Tangerine	E1% = 65-85	0.001-0.05%	Excellent	Excellent	4.0-8.0	Beverages, dry mixes, dairy products
Curcumin Extract / Turmeric Oleoresin	Turmeric	Liquid, Powder	73.615	WD OS	Vanilla to Greenish-Yellow	2-95% curcumin	0.005-0.1%	Fair	Very Good	2.5-8.0	Condiments, dressings, ice cream, cereals
Titanium Dioxide	Titanium Dioxide	Liquid, Powder	73.575, 73.1575, 73.2575	WD OD	White, opacifier	1-100% TiO ₂	0.01-1.0%	Excellent	Excellent	1.0-14.0	Baked goods, cheese, tablets, cosmetics
Chlorophyll / Chlorophyllin	Alfalfa, Grass	Liquid, Powder, Paste	73.125, 73.1125, 73.2125, 73.3110	OS WD	Pale to dark green or bluish-green	E1% = 5-810	0.001-0.1%	Good	Good	2.0-8.0	Cosmetics, dry citrus drinks, bone cement, dentrifices

1. Natural-identical synthetic carotenoid colors