












## Dyeing

»Pigments and, above all, dyes have been obtained from animal and plant substances since ancient times. Examples of soluble animal and plant dyes are crimson varnish (from scale insects), purple (glandular secretion of purple snails), sepia (ink of the squid), pouring yellow (from buckthorn berries) and madder varnish (from the roots of the madder plant).«  
[Stefan Muntwyler in collaboration with Georg Kremer, in: *Farbpigmente, Farbstoffe, Farbgeschichten*, 2011, page 83.]

For thousands of years, barks, leaves, fruits, lichens or roots and have formed the raw material of a wide variety of dyes. These were used to dye textiles such as carpets or clothing. Pigments such as purple, indigo and carmine are among the most mysterious substances from living nature. The group of natural dyes is complemented by the research of modern dye chemistry.

### Natural Dyes / Plant Colors:

	#36000	Indigo, genuine	Indian, powder, <i>Indigofera tinctoria</i>
	#36002	Indigo, genuine, pieces	from India
	#36003	Indigo made of Woad	natural blue dye, <i>Isatis tinctoria</i>
	#36004	Indigo, japanese polygonum	japanese knotweed
	#36009	Indigo, synthetic	VAT Blue 1
	#36010	Tyrian Purple, genuine	Imperial Purple
	#36015	Purpurisum	historical pigment, made from Tyrian purple and chalk
	#360161	Purpurisum brilliant reddish	on diatomaceous earth
	#360162	Purpurisum brilliant reddish-purple	on diatomaceous earth
	#360163	Purpurisum brilliant reddish light	on diatomaceous earth
	#360164	Purpurisum brilliant reddish medium	on diatomaceous earth
	#360165	Purpurisum brilliant purple	on diatomaceous earth
	#36018	Folium Cloth Blue	dry extract of <i>Chrozophora tinctoria</i> on textile carrier
	#36020	Lac Dye	Indian Lake, red, made from <i>Coccus Lacta</i> secretion
	#36030	Maya-Blue, light	
	#36031	Maya Blue, grey-blue B	
	#36032	Maya Blue, deep blue M	
	#36040	Cochenille	<i>Coccus Cacti</i> , dried, silvery gray lice
	#36045	Kermes Lice	from Anatolia, Turkey, dried
	#36100	Logwood, cut pieces	<i>Lignum Campeche</i>
	#36110	Logwood Extract, powder	<i>Lignum Campeche</i>
	#36150	Brazilwood, shavings	Pernambuco, <i>Lignum Fernambuci</i>
	#36160	Redwood Extract	deep red
	#36180	Sandalwood	red powder
	#36200	Yellow Wood	fustic, cut pieces
	#36250	<i>Reseda Luteola</i>	dried plant
	#37110	Saffron	red-orange powder, 0 - 63 µ
	#37201	Madder Roots, ground with pieces	
	#37220	Turmeric, powder	from India



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	#37230	Turmeric, cut pieces	dried root, from India
	#37250	Alkanet	dried root, red
	#37260	Ratanhia Roots	krameria triandra
	#37300	Walnut Hulls	cut pieces, nucum juglandis
	#37350	Annatto Seeds	seeds from Bixa orellana
	#37380	Ripe Buckthorn Berries	Rhamni maturi
	#373901	Green Buckthorn Berries, shredded	Rhamni maturi
	#37400	Oak Apples	gallnuts
	#37420	Safflower	flowers of Safflower
	#37500	Henna Red	powder
	#37510	Henna Black	powder
	#38200	Catechu	Cutch, brown, powder
	#38500	Birch Leaves	cut pieces
	#38520	Frangulae Cortex	cut pieces
	#38530	Apple tree, grinded	dyes from yellow to brown, shredded in pieces
	#38580	Irish Moss	Caragheen Moss
	#94500	Tannin	brown

### Synthetic Dyes (Water Soluble):

	#345110	Textile Dye Yellow F-4G	greenish
	#345130	Textile Dye Orange F-BR	
	#345160	Textile Dye Brilliant Blue FN-G	greenish
	#94100	Alizarine	yellow, pure, dyeing red
	#94110	Fuchsin	green crystals, intensive red solution, synthetic dye
	#94150	Alizarine Carmine	water soluble
	#94160	Indigotine Blue	water soluble indigo
	#94168	Sanolin Ponceau Food Colorant Red No. 7	water soluble powder dye, equivalent to Amaranth E 123
	#94175	Tartrazine 85	yellow dye, water-soluble, food coloring E 102
	#94236	Uranine	greenish-yellow, fluorescent water-soluble dye
	#94900	Rhodamine B	woodstain / varnish, fluorescent

### Synthetic Dyes (Solvent Soluble), Solvent Dyes:

	#35301	Wax Red	Oil Red O, dye for wax
	#35350	Macrolex® Violet B	wax dye
	#94206	Ponceau S extra	
	#94210	Sudan® Black B	dye, woodstain

**Chemicals:**

#64020	Ammonium Bicarbonate	technical, pure, alkaline, buffer*	NH <sub>4</sub> HCO <sub>3</sub>
#64021	Ammonium Carbonate	pure, alkaline, buffer*	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>
#64022	Ammonium Acetate	technical, pure, buffer*	C <sub>2</sub> H <sub>7</sub> NO <sub>2</sub>
#64024	Ammonium Chloride	white, fine, alkaline	NH <sub>4</sub> Cl
#64040	Potash	Potassium carbonate, alkaline	K <sub>2</sub> CO <sub>3</sub>
#64044	Potassium Nitrite	Nitrous acid potassium salt 97%	KNO <sub>2</sub>
#64050	Sodium Hydroxide	beads, alkaline	NaOH
#64062	Calcined Soda	light, 98 - 100 % sodium carbonate, alkaline	Na <sub>2</sub> CO <sub>3</sub>
#64063	Sodium Hydrogen Carbonate	pure, DAB, alkaline	Na <sub>2</sub> HCO <sub>3</sub>
#64080	Barium Hydroxide Octahydrate	white crystals, precipitant	Ba(OH) <sub>2</sub>
#64100	Potash Alum	Aluminium potassium disulfate, precipitant	KAl(SO <sub>4</sub> ) <sub>2</sub> *12 H <sub>2</sub> O
#64102	Aluminium Sulphate	grained, precipitant, acidic	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> *14 H <sub>2</sub> OAl <sub>2</sub> O <sub>3</sub>
#64104	Potassium Hydroxide	beads, alkaline	KOH
#64149	Ascorbic Acid	Vitamin C, antioxidant, acidic, buffer*	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>
#64170	Cream of Tartar	powder	C <sub>4</sub> H <sub>5</sub> KO <sub>6</sub>
#64172	Ammonium Ditartrate	pure, 99 %, alkaline, buffer*	C <sub>4</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub>
#64180	Tartaric Acid	coarse, acidic	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>
#64200	Iron (II) Sulphate	ferrous sulphate, precipitant	FeSO <sub>4</sub> *7 H <sub>2</sub> O
#64201	Iron(III) Chloride	in pieces, precipitant	FeCl <sub>3</sub> * 6 H <sub>2</sub> O
#64211	Copper-II-Sulfate-5-Hydrate	precipitant	CuSO <sub>4</sub> *5 H <sub>2</sub> O
#64220	Sodium Thiosulfate	technical, crystals	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> *5 H <sub>2</sub> O
#64221	Sodium Sulfate	Glauber's salt, pure	Na <sub>2</sub> SO <sub>4</sub> *10 H <sub>2</sub> O
#64223	Sodium Dithionite	bleach, reducing agent	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>
#64300	Tin (II) Chloride Dihydrate	precipitant	SnCl <sub>2</sub> *2 H <sub>2</sub> O
#64351	Zinc Sulphate Heptahydrate	grayish-white powder, crystals	ZnSO <sub>4</sub> *7 H <sub>2</sub> O
#71050	EDTA, Disodium salt	Ethylenediamintetraacetic acid, Disodium salt	
#780551	Tinovetin® JUN HC	surfactant, wetting agent for fibres	

\*buffer to stabilize the pH value

**Detergent:**

#64150	Citric Acid	pure, acidic	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
#78053	Amytis®	washing and cleaning agent for silk, wool, and brushes	



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**Books:**

#990211	Helena Arendt: Werkstatt Pflanzenfarben	2009 ca. 175 S. und 100 Fotos
#990212	Eberhard Prinz: Färberpflanzen - Anleitung zum Färben	3. Auflage, 322 S., 130 Farbabb. 25 x 18 cm
#990236	Marlis Maehrle: Blaue Wunder	Techniken und Projekte mit Cyanotypie; 160 Seiten, durchgehend farbig illustriert, Fadenheftung
#990237	Farbenküche: Bunte Farben aber natürlich	100 Rezepte mit eigenen Erfahrungen; ökologisch, ökonomisch und historisch; 20 Seiten
#990902	A. Paetz gen. Schieck: Zeitkolorit Mode und Chemie	im Farbenrausch 1850 bis 1930, 144 S. mit 108 Abbildungen
#990903	Neumüller / Luhanko: Indigo-Anbau, Färbetechniken, Projekte	2020, 140 S., 256 x 187 x 22 mm, zahlr. Fotos und Zeichnungen
#990904	Abigail Booth: Wild gefärbt-Pflanzen sammeln, Stoffe färben	Schönes nähen; 160 S., 19,8 x 2,2 x 24,1 cm, zahlr. Abbildungen
#992402	Dominique Cardon: Natural Dyes	published 2007, hardback, 800 pages, 560 illustrations
#992405	Kirby et al.: Natural Colorants for Dyeing and Lake Pigments	Practical Recipes and their Historical Sources, 114 pages, 70 color illustrations, paperback