

The List of JCIA Standards for Tar Colors (March 19, 2024)

In the Ministerial Ordinance issued by Japanese government, 83 tar colors are permitted for use in cosmetics. On the other hand, Japan Cosmetic Industry Association (JCIA) has decided to voluntarily refrain from using 20 of the 83 tar colors as JCIA Standard after checking the usage status in Japan and assessing the safety of impurities that may be contaminated. In addition, the upper limit of potentially harmful substances, which may be contaminated as impurities in tar colors, was also set as a standard value under the JCIA standard.

1. JCIA Standard: Voluntarily refrain from formulating in cosmetics

Issue	Japanese name	Color Index No.	Color Index Name	Synonym
April 14,1970, May 9,1970	Green No.205	42095	Acid Green 5	Light Green SF Yellowish
	Red No.214	45170	Solvent Red 49	Rhodamine B Acetate
	Red No.229 *	---	---	---
	Red No.502	16155	Food Red 6	Ponceau 3R
	Red No.503	16150	Acid Red 26	Ponceau R
	Red No.505	12140	Solvent Orange 7	Oil Red XO
	Red No.506	15620	Acid Red 88	Fast Red S
	Orange No.202(1) *	---	---	---
	Orange No.202(2) *	---	---	---
	Orange No.402	14600	Acid Orange 20	Orange I
	Yellow No.202(2)	45350	Acid Yellow 73	Uranine K
	Yellow No.403(2) *	---	---	---
	Yellow No.404	11380	Solvent Yellow 5	Yellow AB
	Yellow No.405	11390	Solvent Yellow 6	Yellow OB
	Yellow No.407	18820	Acid Yellow 11	Fast Light Yellow 3G
Green No.402	42085	Acid Green 3	Guinea Green B	
September 1,2017	Red No.501	26105	Solvent Red 24	Scarlet Red NF
	Orange No.204	21110	Pigment Orange 13	Benzidine Orange G
	Orange No.403	12100	Solvent Orange 2	Orange SS
August 26,2019	Red No.205	15630	Pigment Red 49 (Na)	Lithol Red
	Red No.206	15630:2	Pigment Red 49 (Ca)	Lithol Red CA
	Red No.207	15630:1	Pigment Red 49 (Ba)	Lithol Red BA
	Red No.208	15630:3	Pigment Red 49 (Sr)	Lithol Red SR
	Red No.404	12315	Pigment Red 22	Brilliant Fast Scarlet

* As prohibited in 1972 by ministerial ordinance, not included in 83 tar colors permitted by ministerial ordinance.

2. JCIA Standard: List of standard values for impurities

Japanese name	Color Index No.	Color Index Name	Synonym	Primary aromatic amines		1-Phenylazo-2-naphthol	
				Name	Standard value	Standard value	Analysis method
Red No.201	15850	Pigment Red 57	Lithol Rubine B			5ppm or less	The 3 rd method
Red No.202	15850:1	Pigment Red 57-1	Lithol Rubine BCA			5ppm or less	The 3 rd method
Red No.203	15585	Pigment Red 53 (Na)	Lake Red C			5ppm or less	The 3 rd method
Red No.204	15585:1	Pigment Red 53 (Ba)	Lake Red CBA			5ppm or less	The 3 rd method
Red No.219	15800:1	Pigment Red 64	Brilliant Lake Red R	p-Phenylazoaniline	Less than 0.5ppm (detection limit)	5ppm or less	The 3 rd method
Red No.220	15880:1	Pigment Red 63 (Ca)	Deep Maroon	2-Naphthylamine	1ppm or less	---	---
Red No.221	12120	Pigment Red 3	Toluidine Red			5ppm or less	The 3 rd method
Red No.225	26100	Solvent Red 23	Sudan III	p-Phenylazoaniline	1000ppm or less	0.3% or less	The 4 th method
Red No.227	17200	Acid Red 33	Fast Acid Magenta	p-Phenylazoaniline	Less than 0.5ppm (detection limit)	---	---
Red No.228	12085	Pigment Red 4	Permaton Red			5ppm or less	The 3 rd method
Red No.401	45190	Acid Violet 9	Violamine R	o-Toluidine	300ppm or less	---	---
Red No.405	15865	Pigment Red 48	Permanent Red F5R			5ppm or less	The 3 rd method
Red No.504	14700	Food Red 1	Ponceau SX	2,4-Dimethylaniline	375ppm or less	---	---
Brown No.201	20170	Acid Orange 24	Resorcin Brown	2,4-Dimethylaniline	375ppm or less	---	---
Orange No.205	15510	Acid Orange 7	Orange II			10ppm or less	The 2 nd method
Yellow No.5	15985	Food Yellow 3	Sunset Yellow FCF			10ppm or less	The 1 st method
Yellow No.205	21090	Pigment Yellow 12	Benzidine Yellow G	3,3'-Dichlorobenzidine	150ppm or less	---	---
Brack No.401	20470	Acid Black 1	Naphthol Blue Black	p-Phenylazoaniline	Less than 0.5ppm (detection limit)	---	---

✓ In the table, the standard value of p-Phenylazoaniline for Red No. 225 is different from the one for the other three colors (Red No. 219, Red No. 227 and Black No. 401) because the source of p-Phenylazoaniline is different. p-Phenylazoaniline is a raw material for synthesis of Red No. 225. However, it is a reaction by-product contaminated as an impurity in other three colors. The standard values are set based on the ALARA (As Low As Reasonably Achievable) principle with reference to US regulation (Red No. 225: 1000ppm, Red No. 227: 100ppb).

✓ Issue date.

2-Naphthylamine (Standard value): October 30, 1980,

1-Phenylazo-2-naphthol (Standard value and Analysis method): November 29, 1988,

Primary aromatic amines (Standard value and Analysis method): March 21, 2024

✓ Analysis method of 1-Phenylazo-2-naphthol: Refer to "Handbook of Legally Approved Colors (by Yakuji Nippo, Limited) yakuji-shop.jp

✓ Analysis Method of Specific aromatic amines: Refer to <https://doi.org/10.1093/jaoacint/qsac095>