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*rgb**_{e,ab} and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D65
*Yxy, abc*_{AB}, *ABC*_{AB}, *LabC**_{ab}*h*_{ab} data for relative spacing of elementary hue *h*_{ab} of *CIELAB* for CIE 2 degree observer
Elementary hue circle with 4 intended elementary hue angles: *h*_{ab} = 25.6, 92.4, 162.1, 271.5 of *CIELAB*, and 16 intended hue angles:
25.6 42.3 59.0 75.7 92.4 109.8 127.2 144.7 162.1 189.4 216.8 244.1 271.5 300.0 328.5 357.1
CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3

<i>no.</i> _{ab}	<i>Y</i>	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</i>	<i>B</i>	<i>C</i> _{AB}	<i>h</i> _{AB}	<i>L*</i>	<i>a*</i>	<i>b*</i>	<i>C*</i> _{ab}	<i>h</i> _{ab}	<i>rgb*</i> _{e,ab}	<i>Code</i> _{ab}
000	41.2	0.516	0.321	1.603	-0.201	0.693	26.9	9.6	28.5	19.7	70.8	70.8	33.7	78.4	25.4	1.00 0.00 0.00	% R00Y
001	41.5	0.571	0.371	1.539	-0.06	0.698	24.5	15.5	29.0	32.4	70.5	65.1	71.7	96.9	47.7	1.00 0.25 0.00	% R25Y
002	41.7	0.593	0.396	1.497	-0.01	0.693	22.8	17.7	28.9	37.8	70.7	61.2	106.6	122.9	60.1	1.00 0.50 0.00	% R50Y
003	58.9	0.546	0.452	1.208	-0.001	0.505	15.5	25.5	29.7	59.2	81.2	34.9	137.4	141.8	75.7	1.00 0.75 0.00	% R75Y
004	84.1	0.473	0.517	0.913	-0.086	0.43	-3.0	36.0	36.2	94.8	93.5	-6.1	141.7	141.9	92.4	1.00 1.00 0.00	% Y00G
005	89.6	0.406	0.552	0.735	-0.03	0.459	-19.2	36.3	41.1	117.9	95.8	-39.5	113.6	120.3	109.1	0.75 1.00 0.00	% Y25G
006	79.6	0.332	0.605	0.549	-0.04	0.562	-31.9	31.4	44.1	135.4	91.5	-77.3	101.1	127.3	127.3	0.50 1.00 0.00	% Y50G
007	67.8	0.247	0.635	0.389	-0.073	0.667	-38.0	24.5	45.2	147.1	85.9	-112.9	78.7	137.6	145.1	0.25 1.00 0.00	% Y75G
008	61.8	0.189	0.536	0.353	-0.203	0.64	-36.9	14.3	39.6	158.7	82.8	-119.6	38.1	125.5	162.3	0.00 1.00 0.00	% G00B
009	58.9	0.165	0.35	0.472	-0.552	0.491	-28.1	-6.8	28.9	193.7	81.2	-87.0	-13.8	88.1	189.0	0.00 1.00 0.50	% G25B
010	45.5	0.142	0.253	0.563	-0.955	0.647	-17.6	-23.6	29.5	233.3	73.2	-61.4	-46.0	76.8	216.8	0.00 1.00 1.00	% G50B
011	29.4	0.128	0.186	0.69	-1.474	1.071	-7.6	-30.5	31.5	255.9	61.1	-33.6	-66.7	74.7	243.2	0.00 0.50 1.00	% G75B
012	18.8	0.127	0.129	0.981	-2.291	1.856	0.5	-34.9	34.9	278.9	50.4	3.1	-88.7	84.7	272.1	0.00 0.00 1.00	% B00R
013	8.9	0.136	0.067	2.02	-4.722	4.418	9.5	-38.2	39.4	284.0	35.8	63.8	-104.4	125.8	300.5	0.50 0.00 1.00	% B25R
014	26.3	0.329	0.14	2.344	-1.51	1.76	36.7	-28.3	46.3	322.3	58.3	112.5	-65.8	130.3	329.6	1.00 0.00 1.00	% B50R
015	40.6	0.437	0.249	1.75	-0.5	0.802	32.5	-2.6	32.6	355.3	69.9	83.6	-7.0	83.9	355.1	1.00 0.00 0.50	% B75R
016	41.2	0.516	0.321	1.603	-0.201	0.693	26.9	9.6	28.5	19.7	70.8	70.8	33.7	78.4	25.4	1.00 0.00 0.00	% R00Y

CIEXYZ data of CIE test colours 9 (R): 20.6 11.2 4.3, 10 (Y): 54.8 59.0 12.0, 11 (G): 12.1 20.3 15.3, 12 (B): 6.2 6.4 27.6

5 step equidistant grey scale with intended lightness: *L** = 0.0, 25.0, 50.0, 75.0, 100.0

000	0.0	0.0	0.0	0.0	0.0	1.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00 0.00 0.00	% N000W
001	4.4	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	77.1	25.0	0.0	0.0	0.0	0.0	0.25 0.25 0.25	% N025W
002	18.4	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	57.4	50.0	0.0	0.0	0.0	0.0	0.50 0.50 0.50	% N050W
003	48.2	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	22.9	75.0	0.0	0.0	0.0	0.0	0.75 0.75 0.75	% N075W
004	100.0	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	1.00 1.00 1.00	% N100W

1-000000-L0 VE220-3N

*rgb**_{e,ab} and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D50
*Yxy, abc*_{AB}, *ABC*_{AB}, *LabC**_{ab}*h*_{ab} data for relative spacing of elementary hue *h*_{ab} of *CIELAB* for CIE 2 degree observer
Elementary hue circle with 4 intended elementary hue angles: *h*_{ab} = 27.1, 88.5, 164.3, 263.9 of *CIELAB*, and 16 intended hue angles:
27.1 42.5 57.8 73.2 88.5 107.5 126.4 145.3 164.3 189.2 214.1 239.0 263.9 294.7 325.5 356.3
CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 1.7 71.5, 11 (G): 51.6 -41.1 11.5, 12 (B): 29.2 -5.2 -49.3

<i>no.</i> _{ab}	<i>Y</i>	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</i>	<i>B</i>	<i>C</i> _{AB}	<i>h</i> _{AB}	<i>L*</i>	<i>a*</i>	<i>b*</i>	<i>C*</i> _{ab}	<i>h</i> _{ab}	<i>rgb*</i> _{e,ab}	<i>Code</i> _{ab}
000	41.8	0.559	0.338	1.655	-0.121	0.722	28.9	8.7	30.2	16.8	70.7	73.8	42.5	85.2	29.9	1.00 0.00 0.00	% R00Y
001	41.9	0.595	0.368	1.616	-0.039	0.714	27.3	12.1	29.9	24.0	70.8	70.3	76.0	103.6	47.2	1.00 0.25 0.00	% R25Y
002	42.2	0.608	0.384	1.58	-0.006	0.695	26.0	13.6	29.3	27.6	71.0	67.1	108.6	127.7	58.2	1.00 0.50 0.00	% R50Y
003	59.8	0.56	0.438	1.28	0.0	0.456	18.8	19.6	27.2	46.1	81.7	41.7	138.6	144.8	73.2	1.00 0.75 0.00	% R75Y
004	83.9	0.493	0.5	0.985	-0.005	0.325	1.7	27.2	27.3	86.3	93.4	3.3	141.4	141.5	88.6	1.00 1.00 0.00	% Y00G
005	89.5	0.422	0.544	0.776	-0.023	0.359	-16.8	27.4	32.1	121.5	95.8	-33.6	112.6	117.5	106.6	0.75 1.00 0.00	% Y25G
006	77.3	0.343	0.604	0.568	-0.033	0.494	-30.6	22.9	38.2	143.1	90.4	-74.1	97.7	127.6	127.1	0.50 1.00 0.00	% Y50G
007	67.6	0.264	0.626	0.421	-0.069	0.602	-36.7	17.6	40.7	154.3	85.8	-105.8	71.0	127.4	146.1	0.25 1.00 0.00	% Y75G
008	59.5	0.2	0.562	0.357	-0.168	0.628	-36.1	9.6	37.4	165.0	81.6	-118.5	33.8	123.2	164.0	0.00 1.00 0.00	% G00B
009	58.2	0.178	0.396	0.449	-0.428	0.524	-29.9	-5.7	30.5	190.8	80.8	-93.8	-15.1	95.0	189.1	0.00 1.00 0.50	% G25B
010	41.4	0.141	0.287	0.492	-0.794	0.662	-19.5	-19.2	27.4	224.5	70.5	-74.8	-50.7	90.4	214.1	0.00 1.00 1.00	% G50B
011	25.0	0.123	0.204	0.605	-1.312	1.045	-8.9	-24.5	26.1	249.9	57.0	-45.2	-73.6	86.4	238.3	0.00 0.50 1.00	% G75B
012	15.8	0.123	0.142	0.865	-2.06	1.733	-1.5	-27.3	27.3	266.7	46.7	-9.5	-90.9	91.4	263.9	0.00 0.00 1.00	% B00R
013	6.4	0.128	0.065	1.947	-4.899	4.674	6.3	-29.3	30.0	282.1	30.4	52.9	-116.8	128.2	294.3	0.50 0.00 1.00	% B25R
014	24.1	0.354	0.156	2.273	-1.253	1.601	31.6	-22.3	38.7	324.7	56.2	103.0	-69.8	124.4	325.8	1.00 0.00 1.00	% B50R
015	41.3	0.477	0.269	1.768	-0.374	0.806	33.2	-1.8	33.3	356.8	70.4	83.5	-6.4	83.7	355.5	1.00 0.00 0.50	% B75R
016	41.8	0.559	0.338	1.655	-0.121	0.722	28.9	8.7	30.2	16.8	70.7	73.8	42.5	85.2	29.9	1.00 0.00 0.00	% R00Y

CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 19.8 11.9, 12 (B): 5.2 5.9 21.2

5 step equidistant grey scale with intended lightness: *L** = 0.0, 25.0, 50.0, 75.0, 100.0

000	0.0	0.0	0.0	0.0	0.0	1.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00 0.00 0.00	% N000W
001	4.4	0.345	0.358	0.964	-0.329	0.01	0.0	0.0	0.0	76.4	25.0	0.0	0.0	0.0	0.0	0.25 0.25 0.25	% N025W
002	18.4	0.345	0.358	0.964	-0.329	0.01	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.50 0.50 0.50	% N050W
003	48.2	0.345	0.358	0.964	-0.329	0.01	0.0	0.0	0.0	17.2	75.0	0.0	0.0	0.0	0.0	0.75 0.75 0.75	% N075W
004	100.0	0.345	0.358	0.964	-0.329	0.01	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	1.00 1.00 1.00	% N100W

1-000100-L0 VE220-7N

TUB-test chart VE22; CIE data for 16 *Ostwald* colours input: *w/rgb/cmyk* ->
CIELAB, *Yxy*, *YABCA**h*, *LabC**ab**h* data, CIE illuminants D65 and D50, CIE 2 and 10 degree observer

*rgb**_{e,ab} and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D65
*Yxy, abc*_{AB}, *ABC*_{AB}, *LabC**_{ab}*h*_{ab} data for relative spacing of elementary hue *h*_{ab} of *CIELAB* for CIE 10 degree observer
Elementary hue circle with 4 intended elementary hue angles: *h*_{ab} = 25.9, 87.3, 158.8, 252.1 of *CIELAB*, and 16 intended hue angles:
25.9 41.2 56.6 72.0 87.3 105.2 123.1 140.9 158.8 182.1 205.4 228.8 252.1 285.5 319.0 352.4
CIELAB data of CIE test colours 9 (R): 39.2 54.5 26.4, 10 (Y): 79.5 3.2 71.0, 11 (G): 52.3 -39.6 15.3, 12 (B): 33.6 -12.8 -39.9

<i>no.</i> _{ab}	<i>Y</i>	<i>x</i> ₁₀	<i>y</i> ₁₀	<i>a</i> ₁₀	<i>b</i> ₁₀	<i>c</i> _{AB,10}	<i>A</i> ₁₀	<i>B</i> ₁₀	<i>C</i> _{AB,10}	<i>h</i> _{AB,10}	<i>L</i> [*] ₁₀	<i>a</i> [*] ₁₀	<i>b</i> [*] ₁₀	<i>C</i> [*] _{ab,10}	<i>h</i> _{ab,10}	<i>rgb</i> [*] _{e,ab,10}	<i>Code</i> _{ab}	#
000	40.4	0.542	0.33	1.642	-0.153	0.747	28.1	11.1	30.2	21.6	69.8	74.3	42.8	85.8	29.9	1.00 0.00 0.00	% R00Y	#
001	41.0	0.582	0.37	1.572	-0.051	0.73	25.6	15.5	29.9	31.1	70.2	68.2	75.3	101.7	47.8	1.00 0.25 0.00	% R25Y	#
002	41.8	0.594	0.396	1.501	-0.009	0.694	23.1	17.5	29.0	37.1	70.7	61.9	107.5	124.1	60.0	1.00 0.50 0.00	% R50Y	#
003	53.6	0.562	0.437	1.283	0.0	0.544	18.0	23.0	29.2	51.9	78.2	43.2	134.5	141.3	72.1	1.00 0.75 0.00	% R75Y	#
004	77.3	0.494	0.5	0.987	-0.004	0.427	3.0	32.8	33.0	84.7	90.4	6.2	144.2	144.4	87.5	1.00 1.00 0.00	% Y00G	#
005	90.3	0.421	0.529	0.795	-0.037	0.421	-13.8	35.4	38.0	111.3	96.1	-27.5	107.7	111.2	104.3	0.75 1.00 0.00	% Y25G	#
006	78.3	0.351	0.582	0.603	-0.045	0.516	-27.0	30.1	40.4	131.8	90.9	-64.4	97.3	116.7	123.5	0.50 1.00 0.00	% Y50G	#
007	42.4	0.576	0.376	1.531	-0.049	0.696	24.7	16.1	29.5	33.0	71.2	65.1	77.2	101.0	49.8	0.25 1.00 0.00	% Y75G	#
008	42.2	0.569	0.366	1.552	-0.069	0.703	25.5	15.2	29.7	30.7	71.0	67.0	68.3	95.7	45.5	0.00 1.00 0.00	% G00B	#
009	41.9	0.556	0.352	1.58	-0.103	0.711	26.5	13.6	29.8	27.2	70.8	69.5	56.4	89.5	39.0	0.00 1.00 0.50	% G25B	#
010	41.6	0.539	0.335	1.609	-0.148	0.718	27.5	11.2	29.8	22.9	70.6	71.9	44.4	84.5	31.6	0.00 1.00 1.00	% G50B	#
011	41.3	0.519	0.317	1.637	-0.204	0.725	28.4	9.6	29.9	18.0	70.4	74.4	32.5	81.2	23.6	0.00 0.50 1.00	% G75B	#
012	41.0	0.498	0.299	1.665	-0.27	0.734	29.4	6.5	30.1	12.4	70.2	76.7	21.1	79.6	15.4	0.00 0.00 1.00	% B00R	#
013	40.6	0.466	0.274	1.703	-0.378	0.756	30.6	2.0	30.7	3.8	69.9	79.8	6.1	80.0	4.3	0.50 0.00 1.00	% B25R	#
014	40.3	0.438	0.252	1.736	-0.49	0.79	31.7	-2.4	31.8	355.5	69.6	82.5	-6.7	82.7	355.3	1.00 0.00 1.00	% B50R	#
015	40.0	0.424	0.242	1.754	-0.55	0.815	32.2	-4.8	32.6	351.4	69.4	83.9	-12.7	84.8	351.3	1.00 0.00 0.50	% B75R	#
016	40.4	0.542	0.33	1.642	-0.153	0.747	28.1	11.1	30.2	21.6	69.8	74.3	42.8	85.8	29.9	1.00 0.00 0.00	% R00Y	#