

**rgb\*<sub>e</sub> and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours****XYZ, xy, YAB, and Lab\* data for relative spacing of elementary hue  $h_{ab}$  of CIELAB****16 step elementary hue circle with intended elementary hues:  $h_{ab} = 25.4, 92.3, 162.2, 271.7$  of CIELAB**

	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>x</i>	<i>y</i>	<i>A</i>	<i>B</i>	<i>C<sub>AB</sub></i>	<i>h<sub>AB</sub></i>	<i>L*</i>	<i>a*</i>	<i>b*</i>	<i>C*<sub>ab</sub></i>	<i>h<sub>ab</sub></i>	<i>rgb</i> → <i>rgb*<sub>e</sub></i>
<b>R00Y=R</b>	66.0	41.1	20.9	0.515	0.321	26.9	9.5	28.5	19.5	70.3	70.9	33.4	78.4	<b>25.2</b>	<b>1.00 0.00 0.00</b>
<b>R25Y</b>	64.0	41.5	6.4	0.571	0.371	24.5	15.5	29.0	32.3	70.5	65.1	71.4	96.6	<b>47.6</b>	<b>1.00 0.25 0.00</b>
<b>R50Y</b>	62.6	41.7	1.0	0.593	0.396	22.8	17.7	28.9	37.8	70.7	61.2	106.3	122.7	<b>60.0</b>	<b>1.00 0.50 0.00</b>
<b>R75Y</b>	71.1	58.7	0.1	0.546	0.451	15.3	25.5	29.7	59.0	81.1	35.2	137.3	141.7	<b>75.6</b>	<b>1.00 0.75 0.00</b>
<b>Y00G=Y</b>	76.8	83.9	1.3	0.473	0.517	-2.9	36.0	36.1	94.7	93.4	-5.9	141.9	142.0	<b>92.3</b>	<b>1.00 1.00 0.00</b>
<b>Y25G</b>	65.9	89.6	6.7	0.406	0.552	-19.2	36.3	41.1	117.8	95.8	-39.4	113.6	120.3	<b>109.1</b>	<b>0.75 1.00 0.00</b>
<b>Y50G</b>	43.7	79.6	8.1	0.332	0.605	-31.9	31.4	44.7	135.4	91.5	-77.3	101.2	127.3	<b>127.3</b>	<b>0.50 1.00 0.00</b>
<b>Y75G</b>	26.4	67.7	12.4	0.247	0.635	-38.0	24.5	45.2	147.1	85.9	-113.0	78.6	137.7	<b>145.1</b>	<b>0.25 1.00 0.00</b>
<b>G00B=G</b>	21.8	61.8	31.6	0.189	0.536	-36.9	14.2	39.5	158.8	82.8	-119.5	57.9	125.4	<b>162.3</b>	<b>0.00 1.00 0.00</b>
<b>G25B</b>	27.8	58.9	81.5	0.165	0.349	-28.1	-6.9	28.9	193.9	81.2	-86.9	-13.9	88.0	<b>189.1</b>	<b>0.00 1.00 0.50</b>
<b>G50B</b>	25.6	45.4	108.7	0.142	0.252	-17.5	-23.7	29.5	233.5	73.1	-61.3	-46.1	76.7	<b>216.9</b>	<b>0.00 1.00 1.00</b>
<b>G75B</b>	20.2	29.3	108.4	0.128	0.185	-7.6	-30.6	31.5	256.0	61.0	-33.4	-66.8	74.7	<b>243.4</b>	<b>0.00 0.50 1.00</b>
<b>B00R=B</b>	18.4	18.7	107.7	0.127	0.129	0.6	-34.9	34.9	271.0	50.4	3.3	-84.8	84.9	<b>272.2</b>	<b>0.00 0.00 1.00</b>
<b>B25R</b>	18.0	8.8	105.2	0.136	0.067	9.5	-38.2	39.4	284.0	35.7	64.2	-108.5	126.1	<b>300.6</b>	<b>0.50 0.00 1.00</b>
<b>B50R</b>	61.7	26.3	99.4	0.329	0.14	36.7	-28.3	46.3	322.3	58.3	112.5	-65.8	130.3	<b>329.6</b>	<b>1.00 0.00 1.00</b>
<b>B75R</b>	71.2	40.6	51.0	0.437	0.249	32.5	-2.6	32.6	355.2	69.9	83.6	-7.1	83.9	<b>355.1</b>	<b>1.00 0.00 0.50</b>

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

<b>N000W=N</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	0.0	0.0	<b>0.00 0.00 0.00</b>
<b>N025W</b>	4.1	4.4	4.8	0.312	0.329	0.0	0.0	0.0	77.5	<b>25.0</b>	0.0	0.0	0.0	0.0	<b>0.25 0.25 0.25</b>
<b>N050W</b>	17.5	18.4	20.0	0.312	0.329	0.0	0.0	0.0	55.3	<b>50.0</b>	0.0	0.0	0.0	0.0	<b>0.50 0.50 0.50</b>
<b>N075W</b>	45.8	48.2	52.5	0.312	0.329	0.0	0.0	0.0	21.0	<b>75.0</b>	0.0	0.0	0.0	0.0	<b>0.75 0.75 0.75</b>
<b>N100W=W</b>	95.0	100.0	108.8	0.312	0.329	0.0	0.0	0.0	0.0	<b>100.0</b>	0.0	0.0	0.0	0.0	<b>1.00 1.00 1.00</b>

**rgb\*<sub>e</sub> and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours****XYZ, ab, YAB, and Lab\* data for relative spacing of elementary hue h<sub>ab</sub> of CIELAB****16 step elementary hue circle with intended elementary hues: h<sub>ab</sub> = 25.4, 92.3, 162.2, 271.7 of CIELAB**

	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>a</i>	<i>b</i>	<i>A</i>	<i>B</i>	<i>C<sub>AB</sub></i>	<i>h<sub>AB</sub></i>	<i>L*</i>	<i>a*</i>	<i>b*</i>	<i>C*<sub>ab</sub></i>	<i>h<sub>ab</sub></i>	<i>rgb</i> → <i>rgb*<sub>e</sub></i>
<b>R00Y=R</b>	66.0	41.1	20.9	1.604	-0.202	26.9	9.5	28.5	19.5	70.3	70.9	33.4	78.4	<b>25.2</b>	<b>1.00 0.00 0.00</b>
<b>R25Y</b>	64.0	41.5	6.4	1.54	-0.061	24.5	15.5	29.0	32.3	70.5	65.1	71.4	96.6	<b>47.6</b>	<b>1.00 0.25 0.00</b>
<b>R50Y</b>	62.6	41.7	1.0	1.498	-0.01	22.8	17.7	28.9	37.8	70.7	61.2	106.3	122.7	<b>60.0</b>	<b>1.00 0.50 0.00</b>
<b>R75Y</b>	71.1	58.7	0.1	1.21	-0.001	15.3	25.5	29.7	59.0	81.1	35.2	137.3	141.7	<b>75.6</b>	<b>1.00 0.75 0.00</b>
<b>Y00G=Y</b>	76.8	83.9	1.3	0.915	-0.006	-2.9	36.0	36.1	94.7	93.4	-5.9	141.9	142.0	<b>92.3</b>	<b>1.00 1.00 0.00</b>
<b>Y25G</b>	65.9	89.6	6.7	0.735	-0.03	-19.2	36.3	41.1	117.8	95.8	-39.4	113.6	120.3	<b>109.1</b>	<b>0.75 1.00 0.00</b>
<b>Y50G</b>	43.7	79.6	8.1	0.549	-0.04	-31.9	31.4	44.7	135.4	91.5	-77.3	101.2	127.3	<b>127.3</b>	<b>0.50 1.00 0.00</b>
<b>Y75G</b>	26.4	67.7	12.4	0.389	-0.073	-38.0	24.5	45.2	147.1	85.9	-113.0	78.6	137.7	<b>145.1</b>	<b>0.25 1.00 0.00</b>
<b>G00B=G</b>	21.8	61.8	31.6	0.353	-0.204	-36.9	14.2	39.5	158.8	82.8	-119.5	37.9	125.4	<b>162.3</b>	<b>0.00 1.00 0.00</b>
<b>G25B</b>	27.8	58.9	81.5	0.473	-0.553	-28.1	-6.9	28.9	193.9	81.2	-86.9	-13.9	88.0	<b>189.1</b>	<b>0.00 1.00 0.50</b>
<b>G50B</b>	25.6	45.4	108.7	0.564	-0.957	-17.5	-23.7	29.5	233.5	73.1	-61.3	-46.1	76.7	<b>216.9</b>	<b>0.00 1.00 1.00</b>
<b>G75B</b>	20.2	29.3	108.4	0.691	-1.478	-7.6	-30.6	31.5	256.0	61.0	-33.4	-66.8	74.7	<b>243.4</b>	<b>0.00 0.50 1.00</b>
<b>B00R=B</b>	18.4	18.7	107.7	0.984	-2.297	0.6	-34.9	34.9	271.0	50.4	3.3	-84.8	84.9	<b>272.2</b>	<b>0.00 0.00 1.00</b>
<b>B25R</b>	18.0	8.8	105.2	2.031	-4.745	9.5	-38.2	39.4	284.0	35.7	64.2	-108.5	126.1	<b>300.6</b>	<b>0.50 0.00 1.00</b>
<b>B50R</b>	61.7	26.3	99.4	2.343	-1.509	36.7	-28.3	46.3	322.3	58.3	112.5	-65.8	130.3	<b>329.6</b>	<b>1.00 0.00 1.00</b>
<b>B75R</b>	71.2	40.6	51.0	1.75	-0.501	32.5	-2.6	32.6	355.2	69.9	83.6	-7.1	83.9	<b>355.1</b>	<b>1.00 0.00 0.50</b>

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

<b>N00W=W</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	0.0	0.0	<b>0.00 0.00 0.00</b>
<b>N025W</b>	4.1	4.4	4.8	0.95	-0.435	0.0	0.0	0.0	77.5	<b>25.0</b>	0.0	0.0	0.0	0.0	<b>0.25 0.25 0.25</b>
<b>N050W</b>	17.5	18.4	20.0	0.95	-0.435	0.0	0.0	0.0	55.3	<b>50.0</b>	0.0	0.0	0.0	0.0	<b>0.50 0.50 0.50</b>
<b>N075W</b>	45.8	48.2	52.5	0.95	-0.435	0.0	0.0	0.0	21.0	<b>75.0</b>	0.0	0.0	0.0	0.0	<b>0.75 0.75 0.75</b>
<b>N100W=W</b>	95.0	100.0	108.8	0.95	-0.435	0.0	0.0	0.0	0.0	<b>100.0</b>	0.0	0.0	0.0	0.0	<b>1.00 1.00 1.00</b>