

see similar files: <http://130.149.60.45/~farbmetrik/VE43/VE43.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-VE43/VE43L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _w =100, Y _m =520_770, CIELAB data														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code	%		
1 405	32 564	80.64	-79.12	-32.66	85.6	0.1753	-0.0939	202.4	17 486	38 592	Cm	%		
7 435	33 565	80.84	-92.99	-16.32	94.41	0.1682	-0.0862	189.9	18 490	46 634		%		
10 450	33 566	81.12	-108.35	7.14	108.58	0.1604	-0.0752	176.2	19 497	-1 497c		%		
12 460	33 567	81.46	-116.97	28.05	120.29	0.1561	-0.0654	166.5	21 506	-1 506c		%		
13 465	33 568	81.81	-119.26	39.57	125.66	0.1552	-0.0601	161.6	22 511	-1 511c		%		
14 470	34 570	82.4	-119.23	51.38	129.83	0.1555	-0.0547	156.6	23 519	-1 519c		%		
15 475	34 573	83.39	-115.8	63.56	132.1	0.1579	-0.0494	151.2	25 527	-1 527c	Gm	%		
15 480	35 578	85.46	-107.76	67.11	126.95	0.1631	-0.0484	148.0	26 531	-1 531c		%		
17 485	37 587	88.09	-90.84	90.18	128.01	0.1726	-0.039	135.2	28 544	-1 544c		%		
18 490	44 620	95.17	-39.39	110.34	117.16	0.1986	-0.0333	109.6	32 561	-1 561c	max	%		
19 495	-1 495c	97.49	-13.34	121.9	122.63	0.2105	-0.0295	96.2	33 568	12 463		%		
20 500	-1 500c	96.81	-10.45	127.99	128.42	0.2118	-0.0268	94.6	33 569	13 466		%		
22 510	-1 510c	94.88	-2.34	137.84	137.86	0.2153	-0.0218	90.9	34 571	14 471		%		
23 520	-1 519c	93.58	2.85	141.13	141.16	0.2177	-0.0198	88.8	34 572	14 473	Ym	%		
25 530	-1 529c	90.23	15.24	146.8	147.59	0.2236	-0.0162	84.0	35 575	15 477		%		
27 540	-1 539c	86.01	29.18	144.12	147.04	0.2308	-0.0132	78.5	35 579	16 480		%		
28 545	-1 544c	83.62	36.35	141.27	145.87	0.2347	-0.012	75.5	36 581	16 481		%		
29 550	-1 549c	81.05	43.6	137.66	144.4	0.239	-0.011	72.4	36 583	16 483		%		
30 555	-1 554c	78.3	50.75	133.47	142.8	0.2434	-0.0102	69.1	37 585	16 484		%		
32 560	-1 560c	72.41	64.12	123.93	139.53	0.2528	-0.0092	62.6	38 590	17 486		%		
380	770	100.0	0.0	0.0	0.0	0.2164	-0.0785	0.0				%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _w =100, Y _m =770_520, CIELAB complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code			%	
32 564	1 405	71.0	67.41	105.72	125.38	0.2553	-0.0231	57.4	38 592	17 486	Rm			%	
33 565	7 435	70.74	75.66	26.96	80.32	0.2602	-0.0643	19.6	46 634	18 490				%	
33 566	10 450	70.4	84.09	-8.18	84.49	0.2653	-0.0828	354.4	-1 497c	19 497				%	
33 567	12 460	69.97	89.18	-25.67	92.8	0.2685	-0.0921	343.9	-1 506c	21 506				%	
33 568	13 465	69.5	91.5	-32.76	97.19	0.2702	-0.096	340.2	-1 511c	22 511				%	
34 570	14 470	68.72	93.74	-39.06	101.55	0.272	-0.0995	337.3	-1 519c	23 519				%	
34 573	15 475	67.36	96.12	-45.25	106.24	0.2743	-0.1032	334.7	-1 527c	25 527	Mm			%	
35 578	15 480	64.23	100.99	-50.62	112.97	0.2796	-0.1073	333.3	-1 531c	26 531				%	
37 587	17 485	59.67	103.27	-63.42	121.19	0.285	-0.1167	328.4	-1 544c	28 544				%	
44 620	18 490	41.19	95.32	-96.8	135.85	0.3001	-0.1557	314.5	-1 561c	32 561	min			%	
-1 495c	19 495	30.29	58.93	-116.79	130.82	0.2804	-0.1936	296.7	12 463	33 568				%	
-1 500c	20 500	34.03	42.92	-111.26	119.25	0.2595	-0.1799	291.0	13 466	33 569				%	
-1 510c	22 510	42.26	8.18	-98.28	98.62	0.2235	-0.1554	274.7	14 471	34 571				%	
-1 519c	23 520	46.59	-9.12	-91.17	91.63	0.2091	-0.1449	264.2	14 473	34 572	Bm			%	
-1 529c	25 530	55.28	-39.96	-76.64	86.43	0.1882	-0.1275	242.4	15 477	35 575				%	
-1 539c	27 540	63.34	-62.09	-62.98	88.44	0.1771	-0.1147	225.4	16 480	35 579				%	
-1 544c	28 545	67.02	-69.55	-56.7	89.74	0.1743	-0.1096	219.1	16 481	36 581				%	
-1 549c	29 550	70.49	-74.83	-50.77	90.42	0.1729	-0.1053	214.1	16 483	36 583				%	
-1 554c	30 555	73.73	-78.04	-45.21	90.19	0.1727	-0.1015	210.0	16 484	37 585				%	
-1 560c	32 560	79.46	-78.96	-35.36	86.52	0.1749	-0.0954	204.1	17 486	38 590				%	
380	770	100.0	0.0	0.0	0.0	0.2164	-0.0785	0.0						%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _{w,10} =100, Y _m =520_770, CIELAB data															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code			%	
1 405	31 559	79.59	-77.2	-34.19	84.44	0.176	-0.0944	203.8	15 479	37 589	Cm			%	
7 435	32 561	79.86	-91.81	-15.16	93.06	0.1685	-0.0853	189.3	16 484	58 693				%	
10 450	32 562	79.99	-106.14	10.32	106.64	0.161	-0.0733	174.4	18 493	-1 493c				%	
12 460	32 564	80.41	-112.32	32.6	116.95	0.1581	-0.0628	163.8	20 503	-1 503c				%	
13 465	33 566	81.01	-111.86	45.12	120.61	0.1587	-0.0571	158.0	22 512	-1 512c				%	
14 470	34 570	82.18	-107.6	58.61	122.53	0.1615	-0.0511	151.4	24 521	-1 521c				%	
15 475	35 576	84.23	-97.14	73.13	121.59	0.1679	-0.0451	143.0	26 531	-1 531c	Gm			%	
16 480	38 590	88.39	-73.47	90.47	116.54	0.1812	-0.0388	129.0	28 543	-1 543c				%	
17 485	-1 485c	97.06	-11.31	114.51	115.07	0.2116	-0.0322	95.6	32 563	11 458				%	
18 490	-1 490c	96.45	-8.75	121.65	121.97	0.2127	-0.0291	94.1	32 564	12 460	max			%	
19 495	-1 495c	95.71	-5.61	127.93	128.05	0.2141	-0.0262	92.5	33 565	12 462				%	
20 500	-1 500c	94.84	-1.91	133.35	133.36	0.2158	-0.0236	90.8	33 566	12 464				%	
21 510	-1 509c	93.81	2.3	137.86	137.88	0.2177	-0.0212	89.0	33 567	13 466				%	
24 520	-1 520c	89.67	17.74	147.75	148.81	0.2251	-0.015	83.1	34 571	14 471	Ym			%	
25 530	-1 529c	87.89	23.66	147.2	149.09	0.2281	-0.0131	80.8	34 573	14 473				%	
28 540	-1 540c	81.47	42.32	139.84	146.11	0.2385	-0.0073	73.1	35 579	15 476				%	
29 545	-1 545c	78.99	48.54	135.98	144.39	0.2423	-0.0052	70.3	36 581	15 477				%	
29 550	-1 549c	78.99	48.54	135.98	144.39	0.2423	-0.0052	70.3	36 581	15 477				%	
31 555	-1 555c	73.59	60.31	126.89	140.49	0.2505	0.0	64.5	37 587	15 479				%	
32 560	2 411	70.73	66.43	91.22	112.85	0.2551	-0.0304	53.9	38 591	16 480				%	
380	770	100.0	0.0	0.0	0.0	0.2166	-0.0782	0.0						%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _{w,10} =100, Y _m =770_520, CIELAB complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%		
31 559	1 405	72.26	63.47	103.03	121.01	0.2528	-0.0252	58.3	37 589	15 479	Rm		%		
32 561	7 435	71.95	72.06	23.05	75.66	0.2578	-0.0663	17.7	58 693	16 484			%		
32 562	10 450	71.79	79.33	-10.79	80.06	0.2621	-0.0837	352.2	-1 493c	18 493			%		
32 564	12 460	71.28	83.47	-27.25	87.8	0.2647	-0.0923	341.9	-1 503c	20 503			%		
33 566	13 465	70.54	85.3	-34.29	91.94	0.2662	-0.0961	338.1	-1 512c	22 512			%		
34 570	14 470	69.01	87.54	-41.42	96.85	0.2684	-0.1003	334.6	-1 521c	24 521			%		
35 576	15 475	66.13	89.85	-49.78	102.72	0.2716	-0.1057	331.0	-1 531c	26 531	Mm		%		
38 590	16 480	59.09	91.66	-64.37	112.01	0.278	-0.1171	324.9	-1 543c	28 543			%		
-1 485c	17 485	32.71	47.82	-111.58	121.39	0.266	-0.1821	293.2	11 458	32 563			%		
-1 490c	18 490	35.8	34.81	-107.5	113.0	0.2505	-0.1724	287.9	12 460	32 564	min		%		
-1 495c	19 495	39.04	20.95	-102.82	104.93	0.2358	-0.1629	281.5	12 462	33 565			%		
-1 500c	20 500	42.42	6.67	-97.66	97.89	0.2224	-0.154	273.9	12 464	33 566			%		
-1 509c	21 510	45.88	-7.52	-92.18	92.48	0.2105	-0.1458	265.3	13 466	33 567			%		
-1 520c	24 520	56.5	-45.46	-74.63	87.39	0.1851	-0.1249	238.6	14 471	34 571	Bm		%		
-1 529c	25 530	60.04	-55.36	-68.66	88.2	0.18	-0.1191	231.1	14 473	34 573			%		
-1 540c	28 540	69.95	-73.85	-51.77	90.19	0.1734	-0.1055	215.0	15 476	35 579			%		
-1 545c	29 545	72.95	-76.41	-46.62	89.51	0.1734	-0.1019	211.3	15 477	36 581			%		
-1 549c	29 550	72.95	-76.41	-46.62	89.51	0.1734	-0.1019	211.3	15 477	36 581			%		
-1 555c	31 555	78.42	-76.8	-37.2	85.33	0.1757	-0.096	205.8	15 479	37 587			%		
2 411	32 560	80.85	-76.45	-31.35	82.63	0.1769	-0.0928	202.2	16 480	38 591			%		
380	770	100.0	0.0	0.0	0.0	0.2166	-0.0782	0.0					%		

http://130.149.60.45/~farbmatrik/VE43/VE43LONP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 2/5

see similar files: <http://130.149.60.45/~farbmatrik/VE43/VE43LONP.PDF>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

rgb^*_{eab} 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 90 intended angles:

000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 17.7 71.5, 11 (G): 51.6 -41.1 11.5, 12 (B): 29.2 -55.2 -49.3

no-ab _Y	x	y	a	b	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{eab}	Code _{ab}
000	41.4	0.483	0.275	1.755	-0.349	0.791	32.7	-0.7	32.7	358.6	70.4	82.3	-2.8
001	41.4	0.485	0.277	1.751	-0.341	0.787	32.6	-0.4	32.6	359.1	70.5	82.0	-1.7
002	41.4	0.487	0.279	1.747	-0.334	0.783	32.5	-0.1	32.5	359.6	70.5	81.7	-0.6
003	41.5	0.489	0.28	1.743	-0.326	0.779	32.3	0.1	32.3	0.2	70.5	81.4	0.4
004	41.5	0.491	0.282	1.739	-0.318	0.775	32.2	0.4	32.2	0.8	70.5	81.0	1.6
005	41.5	0.494	0.284	1.735	-0.311	0.771	32.0	0.7	32.0	1.4	70.5	80.7	2.9
006	41.5	0.496	0.286	1.731	-0.302	0.767	31.9	1.1	31.9	2.0	70.5	80.4	4.1
007	41.5	0.498	0.288	1.727	-0.294	0.764	31.7	1.4	31.7	2.6	70.5	80.0	5.5
008	41.6	0.501	0.29	1.723	-0.286	0.76	31.5	1.8	31.6	3.2	70.6	79.7	6.8
009	41.6	0.503	0.292	1.719	-0.277	0.757	31.4	2.1	31.5	3.9	70.6	79.3	8.3
010	41.6	0.505	0.295	1.715	-0.269	0.753	31.2	2.5	31.6	4.5	70.6	78.9	9.8
011	41.6	0.508	0.297	1.711	-0.26	0.75	31.1	2.8	31.2	5.3	70.6	78.7	11.3
012	41.6	0.511	0.299	1.707	-0.251	0.747	30.9	3.2	31.1	6.0	70.6	78.3	12.9
013	41.7	0.514	0.302	1.703	-0.242	0.744	30.8	3.6	31.1	6.7	70.6	78.0	14.5
014	41.7	0.517	0.304	1.699	-0.233	0.741	30.6	4.0	30.9	7.4	70.6	77.6	16.2
015	41.7	0.52	0.307	1.694	-0.224	0.738	30.5	4.4	30.8	8.2	70.6	77.2	18.0
016	41.7	0.523	0.309	1.69	-0.215	0.735	30.3	4.7	30.7	8.9	70.7	76.9	19.8
017	41.7	0.526	0.312	1.686	-0.206	0.733	30.1	5.1	30.6	9.7	70.7	76.5	21.7
018	41.7	0.53	0.315	1.682	-0.196	0.73	30.0	5.5	30.5	10.5	70.7	76.2	23.6
019	41.8	0.533	0.317	1.678	-0.187	0.728	29.8	5.9	30.4	11.2	70.7	75.8	25.6
020	41.8	0.536	0.32	1.674	-0.178	0.726	29.7	6.3	30.3	12.0	70.7	75.5	27.6
021	41.8	0.539	0.322	1.672	-0.169	0.725	29.6	6.6	30.3	12.7	70.7	75.3	29.7
022	41.8	0.543	0.325	1.669	-0.161	0.725	29.5	7.0	30.3	13.4	70.7	75.0	31.7
023	41.8	0.546	0.327	1.666	-0.153	0.724	29.3	7.3	30.3	14.1	70.7	74.8	33.7
024	41.8	0.549	0.33	1.664	-0.145	0.723	29.2	7.7	30.2	14.7	70.7	74.6	35.8
025	41.8	0.552	0.332	1.661	-0.137	0.723	29.1	8.0	30.2	15.4	70.7	74.3	37.9
026	41.8	0.555	0.335	1.658	-0.129	0.722	29.0	8.3	30.2	16.0	70.7	74.0	40.0
027	41.8	0.559	0.337	1.656	-0.122	0.722	28.9	8.6	30.2	16.7	70.7	73.8	42.1
028	41.8	0.562	0.34	1.653	-0.115	0.721	28.8	8.9	30.2	17.3	70.7	73.6	44.3
029	41.8	0.565	0.342	1.651	-0.108	0.721	28.7	9.2	30.1	17.9	70.7	73.4	46.4
030	41.8	0.568	0.344	1.648	-0.101	0.721	28.6	9.5	30.1	18.4	70.7	73.1	48.5
031	41.8	0.57	0.346	1.645	-0.095	0.72	28.5	9.8	30.1	19.0	70.7	72.9	50.8
032	41.8	0.573	0.349	1.642	-0.088	0.72	28.4	10.0	30.1	19.5	70.7	72.7	52.9
033	41.8	0.576	0.351	1.64	-0.082	0.719	28.3	10.3	30.1	20.0	70.7	72.4	55.1
034	41.8	0.579	0.353	1.637	-0.075	0.719	28.2	10.6	30.0	20.5	70.7	72.2	57.3
035	41.8	0.58	0.355	1.635	-0.071	0.718	28.1	10.8	30.1	21.0	70.7	72.0	59.5
036	41.8	0.583	0.357	1.632	-0.066	0.718	28.0	11.0	30.0	21.4	70.7	71.7	61.8
037	41.9	0.585	0.359	1.63	-0.061	0.717	27.8	11.2	30.0	21.9	70.8	71.5	64.0
038	41.9	0.587	0.36	1.627	-0.057	0.717	27.7	11.4	30.0	22.3	70.8	71.3	66.2
039	41.9	0.59	0.362	1.625	-0.052	0.716	27.6	11.6	30.0	22.7	70.8	71.1	68.4
040	41.9	0.591	0.364	1.622	-0.048	0.716	27.5	11.7	30.0	23.1	70.8	70.9	70.5
041	41.9	0.593	0.366	1.62	-0.044	0.715	27.5	11.9	29.9	23.4	70.8	70.6	72.7
042	41.9	0.594	0.367	1.617	-0.041	0.714	27.4	12.1	29.9	23.8	70.8	70.4	74.9
043	41.9	0.596	0.369	1.615	-0.037	0.713	27.3	12.2	29.9	24.1	70.8	70.2	77.0
044	41.9	0.597	0.37	1.612	-0.034	0.712	27.2	12.4	29.9	24.4	70.8	70.0	79.2
045	41.9	0.598	0.371	1.61	-0.031	0.712	27.1	12.5	29.8	24.7	70.8	69.8	81.3
046	41.9	0.6	0.373	1.608	-0.028	0.711	27.0	12.6	29.8	25.0	70.8	69.6	83.4
047	41.9	0.601	0.374	1.605	-0.026	0.71	26.9	12.7	29.8	25.3	70.8	69.4	85.5
048	42.0	0.602	0.375	1.603	-0.023	0.709	26.8	12.8	29.7	25.6	70.8	69.1	87.6
049	42.0	0.603	0.376	1.601	-0.021	0.708	26.7	12.9	29.7	25.9	70.8	68.9	89.7
050	42.0	0.604	0.377	1.599	-0.019	0.706	26.6	13.0	29.7	26.0	70.8	68.8	91.6
051	42.0	0.604	0.378	1.596	-0.017	0.705	26.6	13.1	29.6	26.2	70.8	68.6	93.6
052	42.0	0.605	0.379	1.594	-0.015	0.704	26.5	13.2	29.6	26.4	70.8	68.4	95.6
053	42.0	0.606	0.38	1.592	-0.014	0.703	26.4	13.2	29.6	26.6	70.8	68.2	97.5
054	42.1	0.606	0.381	1.59	-0.012	0.702	26.3	13.3	29.5	26.8	70.9	68.0	99.4
055	42.1	0.607	0.382	1.588	-0.011	0.7	26.2	13.4	29.5	27.0	70.9	67.8	101.2
056	42.1	0.607	0.382	1.586	-0.01	0.699	26.2	13.4	29.4	27.2	70.9	67.6	103.1
057	42.1	0.607	0.383	1.584	-0.008	0.698	26.1	13.5	29.4	27.3	70.9	67.4	104.8
058	42.2	0.608	0.385	1.579	-0.006	0.695	26.0	13.5	29.4	27.7	71.0	67.1	106.5
059	42.4	0.609	0.387	1.573	-0.003	0.691	25.8	13.8	29.3	28.1	71.1	66.6	111.6
060	42.6	0.609	0.388	1.566	-0.002	0.686	25.7	14.0	29.2	28.5	71.3	66.1	118.9
061	43.1	0.608	0.39	1.558	0.0	0.679	25.6	14.1	29.2	28.9	71.6	65.5	121.5
062	43.7	0.607	0.392	1.546	0.0	0.669	25.4	14.4	29.2	29.0	72.0	64.8	123.1
063	44.6	0.604	0.395	1.528	0.0	0.654	25.2	14.7	29.2	30.2	72.6	63.5	124.6
064	45.9	0.6	0.399	1.504	0.0	0.632	24.8	15.1	29.0	31.4	73.5	61.6	126.5
065	47.3	0.596	0.403	1.477	0.0	0.61	24.3	15.6	28.9	32.7	74.4	59.6	128.7
066	48.8	0.591	0.407	1.451	0.0	0.588	23.7	16.1	28.7	34.1	75.3	57.4	129.7
067	50.4	0.587	0.412	1.424	0.0	0.566	23.2	16.6	28.5	35.5	76.3	55.3	131.0
068	51.9	0.582	0.416	1.394	0.0	0.542	22.6	17.1	28.3	37.1	77.2	53.1	132.2
069	53.4	0.578	0.42	1.376	0.0	0.527	22.0	17.6	28.2	38.6	78.1	51.1	133.3
070	55.2	0.573	0.425	1.349	0.0	0.506	21.2	18.1	27.9	40.5	79.1	48.6	134.3
071	56.7	0.569	0.429	1.326	0.0	0.489	20.5	18.6	27.7	42.3	80.0	46.3	135.1
072	58.0	0.565	0.433	1.298	0.0	0.464	19.8	19.1	27.5	43.9	80.7	44.1	135.7
073	59.4	0.561	0.437	1.265	0.0	0.46	19.0	19.5	27.3	45.6	81.6	42.0	136.2
074	60.9	0.557	0.441	1.263	0.0	0.444	18.2	20.0	27.1	47.2	82.3	39.9	139.5
075	62.4	0.553	0.445	1.242	0.0	0.43	17.3	20.5	26.9	49.8	83.1	37.6	140.6
076	63.9	0.549	0.449	1.222	0.0	0.418	16.5	21.0	26.6	51.8	83.9	35.4	141.7
077	65.3	0.545	0.453	1.283	0.0	0.417	15.6	21.4	26.6	53.9	84.6	33.3	142.6
078	66.9	0.541	0.457	1.241	0.0	0.399	14.4	22.0	26.6	56.2	85.4	31.2	143.6
079	68.6	0.536	0.461	1.161	-0.001	0.383	13.5	22.5	26.2	59.0	86.3	28.1	144.4
080	70.1	0.532	0.465	1.142	-0.001	0.373	12.4	23.0	26.2	61.5	87.0	25.1	145.1
081	71.6	0.527	0.47	1.123	-0.001	0.364	11.3	23.5	26.1	64.1	87.8	23.3	145.8
082	73.3	0.523	0.474	1.094	-0.001	0.349	10.2	24.0	26.0	66.7	88.4	21.4	146.3
083	75.0	0.518	0.478	1.084	-0.002	0.349	8.9	24.5	26.1	69.9	89.3	18.8	146.6
084	76.6	0.514	0.482	1.065	-0.002	0.342	7.7	25.1	26.2	72.8	90.1	15.4	146.8
085	78.4	0.509	0.487	1.045	-0.002	0.337	6.3	25.6	26.4	76.1	90.9	12.5	146.8
086	80.1	0.504	0.491	1.026	-0.003	0.332	4.9	26.1	26.6	79.2	91.7	9.7	144.9
087	81	0.499	0.495										

http://130.149.60.45/~farbmatrik/VE43/VE43LONP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 3/5

see similar files: <http://130.149.60.45/~farbmatrik/VE43/VE43LONP.PDF>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20130201-VE43/VE43LONP.PDF/.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

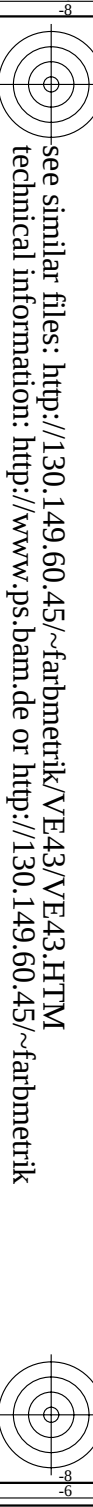
rgb^*_{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D50
Yxy, abc_{AB} , ABC_{AB} , $LabC^*_{ab}$, h_{ab} data for relative spacing of elementary hue h_{ab} of CIELAB for CIE 2 degree observer
Elementary hue circle with 4 intended elementary hue angles: $h_{ab} = 27.1, 88.5, 164.3, 263.9$ of CIELAB, and 90 intended hues angles:

090, 091, ..., 179, 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 -49.6									
no-ab _Y	x	y	a	b	CAB	hAB	L*	a*	b*
090	86.1	0.486	0.505	0.962	-0.086	0.323	-6.1	27.1	27.8
091	87.3	0.542	0.568	0.949	-0.072	0.312	-2.6	28.2	28.2
092	88.6	0.478	0.51	0.936	-0.068	0.322	-2.4	28.5	28.6
093	89.9	0.473	0.513	0.923	-0.01	0.322	-3.6	28.7	29.0
094	91.2	0.469	0.515	0.91	-0.011	0.322	-4.8	29.0	29.4
095	92.5	0.465	0.515	0.905	-0.029	0.321	-5.6	29.2	29.8
096	93.7	0.461	0.516	0.894	-0.046	0.321	-6.5	29.3	30.0
097	95.3	0.457	0.518	0.882	-0.018	0.322	-7.6	29.1	30.1
098	93.4	0.455	0.52	0.875	-0.018	0.323	-8.2	29.1	30.2
099	93.2	0.455	0.521	0.868	-0.018	0.325	-8.9	29.0	30.3
100	91.0	0.433	0.536	0.86	-0.022	0.345	-14.1	28.0	31.1
101	92.7	0.447	0.526	0.851	-0.019	0.33	-10.4	28.7	30.5
102	92.3	0.444	0.528	0.841	-0.02	0.333	-11.3	28.5	30.7
103	91.9	0.441	0.53	0.831	-0.02	0.336	-12.2	28.4	30.9
104	91.5	0.437	0.533	0.82	-0.021	0.34	-13.1	28.2	31.1
105	91.0	0.433	0.536	0.808	-0.025	0.371	-19.7	27.9	31.5
106	90.5	0.429	0.539	0.796	-0.022	0.35	-15.1	27.8	31.6
107	89.8	0.425	0.543	0.783	-0.023	0.356	-16.2	27.5	32.0
108	89.2	0.42	0.546	0.769	-0.024	0.362	-17.3	27.3	32.3
109	88.5	0.415	0.55	0.755	-0.024	0.37	-18.5	27.0	32.7
110	87.8	0.41	0.553	0.741	-0.025	0.377	-19.7	26.7	33.0
111	87.2	0.407	0.556	0.721	-0.025	0.383	-20.2	26.5	33.4
112	86.6	0.403	0.559	0.701	-0.026	0.389	-21.0	26.3	33.7
113	86.0	0.399	0.562	0.71	-0.026	0.395	-21.8	26.0	34.0
114	85.3	0.396	0.565	0.7	-0.027	0.402	-22.5	25.8	34.3
115	84.7	0.392	0.568	0.689	-0.027	0.408	-23.2	25.6	34.6
116	84.1	0.388	0.571	0.678	-0.027	0.415	-24.0	25.4	34.9
117	83.4	0.384	0.575	0.667	-0.028	0.422	-24.7	25.1	35.2
118	82.8	0.38	0.578	0.657	-0.028	0.43	-25.4	24.9	35.6
119	82.1	0.375	0.581	0.646	-0.029	0.437	-26.1	24.6	35.9
120	81.5	0.371	0.584	0.635	-0.029	0.445	-26.7	24.3	36.2
121	80.8	0.367	0.587	0.625	-0.03	0.452	-27.4	24.1	36.5
122	80.2	0.363	0.591	0.614	-0.031	0.46	-28.0	23.9	36.9
123	79.5	0.358	0.594	0.603	-0.031	0.467	-28.6	23.7	37.2
124	78.9	0.357	0.597	0.593	-0.032	0.474	-29.2	23.5	37.6
125	78.2	0.35	0.6	0.583	-0.032	0.483	-29.8	23.2	37.8
126	77.6	0.345	0.603	0.573	-0.033	0.49	-30.3	23.0	38.0
127	77.0	0.341	0.606	0.563	-0.034	0.498	-30.8	22.7	38.3
128	76.3	0.337	0.609	0.553	-0.034	0.506	-31.3	22.5	38.6
129	75.7	0.333	0.612	0.543	-0.035	0.514	-31.8	22.2	38.9
130	75.1	0.328	0.615	0.534	-0.036	0.52	-32.3	22.0	39.1
131	74.5	0.324	0.618	0.525	-0.037	0.527	-32.7	21.8	39.3
132	74.0	0.32	0.62	0.516	-0.037	0.534	-33.1	21.6	39.5
133	73.4	0.316	0.623	0.507	-0.038	0.541	-33.5	21.3	39.7
134	72.9	0.312	0.626	0.498	-0.039	0.548	-33.9	21.1	39.9
135	72.3	0.308	0.628	0.49	-0.04	0.555	-34.2	20.9	40.1
136	71.7	0.303	0.63	0.48	-0.042	0.562	-34.6	20.6	40.3
137	71.1	0.297	0.631	0.471	-0.044	0.569	-35.0	20.4	40.4
138	70.5	0.292	0.632	0.463	-0.047	0.575	-35.3	20.1	40.6
139	69.9	0.287	0.632	0.455	-0.049	0.582	-35.6	19.9	40.7
140	69.3	0.283	0.632	0.448	-0.053	0.585	-35.9	19.7	40.8
141	68.7	0.279	0.631	0.442	-0.056	0.589	-36.1	19.5	40.9
142	68.1	0.275	0.631	0.436	-0.059	0.593	-36.2	19.4	40.9
143	68.4	0.271	0.629	0.436	-0.062	0.596	-36.4	19.3	40.9
144	68.1	0.268	0.628	0.427	-0.065	0.598	-36.5	19.2	40.9
145	67.7	0.265	0.627	0.422	-0.068	0.601	-36.6	19.1	40.9
146	67.4	0.262	0.625	0.419	-0.071	0.603	-36.7	19.1	40.9
147	67.2	0.259	0.624	0.415	-0.074	0.605	-36.8	19.1	40.9
148	66.9	0.257	0.622	0.411	-0.077	0.607	-36.9	19.0	40.9
149	66.5	0.249	0.625	0.398	-0.08	0.618	-37.1	18.9	40.8
150	64.2	0.242	0.629	0.386	-0.081	0.629	-37.1	18.9	40.8
151	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
152	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
153	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
154	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
155	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
156	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
157	63.1	0.238	0.632	0.376	-0.081	0.637	-37.1	18.9	40.8
158	62.7	0.234	0.635	0.365	-0.12	0.642	-36.9	18.7	39.8
159	60.4	0.212	0.596	0.355	-0.127	0.641	-36.8	18.2	38.7
160	60.2	0.209	0.59	0.355	-0.135	0.639	-36.6	18.1	38.5
161	60.0	0.207	0.583	0.355	-0.142	0.637	-36.5	18.1	38.4
162	59.9	0.205	0.577	0.355	-0.15	0.633	-36.4	18.0	38.3
163	59.7	0.203	0.571	0.355	-0.157	0.632	-36.3	17.9	38.2
164	59.6	0.201	0.564	0.356	-0.165	0.629	-36.2	17.9	38.1
165	59.4	0.199	0.557	0.358	-0.174	0.625	-36.0	17.8	37.9
166	59.3	0.197	0.548	0.36	-0.184	0.62	-35.8	17.8	37.8
167	59.2	0.196	0.54	0.363	-0.193	0.616	-35.6	17.8	37.7
168	59.1	0.194	0.534	0.365	-0.202	0.613	-35.5	17.7	37.6
169	59.1	0.194	0.527	0.367	-0.21	0.608	-35.2	17.7	37.5
170	59.0	0.192	0.52	0.37	-0.219	0.604	-35.0	17.6	37.4
171	59.0	0.191	0.513	0.373	-0.229	0.599	-34.8	17.6	37.3
172	58.9	0.189	0.505	0.375	-0.239	0.594	-34.6	17.5	37.2
173	58.8	0.189	0.498	0.379	-0.25	0.59	-34.4	17.5	37.1
174	58.8	0.188	0.49	0.383	-0.261	0.585	-34.1	17.4	37.1
175	58.7	0.186	0.482	0.387	-0.273	0.579	-33.9	17.4	37.1
176	58.7	0.185	0.474	0.391	-0.286	0.574	-33.6	17.3	37.1
177	58.6	0.183	0.465	0.395	-0.297	0.568	-33.3	17.3	37.0
178	58.6	0.184	0.461	0.399	-0.306	0.565	-33.1	17.3	37.0
179	58.5	0.183	0.455	0.403	-0.316	0.561	-32.8	17.3	37.0

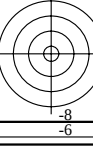
CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 18.9 11.9, 12 (B): 5.2 5.9 21.2

rgb^*_{cab} 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 10 degree observer
Elementary hue circle with 4 intended elementary hue angles: $h_{ab} = 27.8, 84.4, 160.7, 247.9$ of CIELAB, and 90 intended hues angles:

090, 091, ..., 179, CIELAB data of CIE test colours 9 (R): 41.2 57.0 30.1, 10 (Y): 80.5 6.9 71.5, 11 (G): 51.8 -38.5 13.4, 12 (B): 32.0 -7.36 -43.6									
no-ab _Y	x ₁₀	y ₁₀	a ₁₀	b ₁₀	CAB ₁₀	hAB ₁₀	L* ₁₀	a* ₁₀	b* ₁₀
090	86.5	0.485	0.504	0.983	-0.088	0.317	-9.3	27.5	27.5
091	87.7	0.542	0.585	0.949	-0.073	0.316	-1.2	27.7	27.7
092	88.7	0.477	0.508	0.94	-0.011	0.315	-2.4	27.9	28.0
093	89.9	0.472	0.509	0.927	-0.013	0.314	-3.5	28.0	28.2
094	90.9	0.468	0.51	0.916	-0.016	0.313	-4.5	28.1	28.5
095	93.4	0.469	0.505	0.903	-0.019	0.308	-5.3	28.5	28.8
096	92.4	0.459	0.511	0.898	-0.022	0.31	-6.1	28.7	29.0
097	91.9	0.456	0.513	0.889	-0.023	0.312	-7.1	27.8	28.6
098	91.4	0.454	0.515	0.88	-0.023	0.314	-7.8	27.6	28.7
099	90.9	0.451	0.517	0.871	-0.024	0.316	-8.6	27.4	28.7
100	88.5	0.432	0.532	0.812	-0.026	0.336	-13.5	26.2	29.4
101	89.8	0.445	0.522	0.852	-0.024	0.321	-10.2	27.0	28.9
102	89.3	0.442	0.524	0.843	-0.025	0.325	-11.0	26.8	29.0
103	88.7	0.439	0.527	0.833	-0.025	0.328	-11.8	26.6	29.1
104	88.1	0.435	0.529	0.823	-0.026	0.332	-12.7	26.4	29.3
105	86.5	0.432	0.532	0.812	-0.026	0.336	-13.5	26.2	29.4
106	86.9	0.429	0.534	0.802	-0.026	0.341	-14.3	25.9	29.6
107	86.3	0.425	0.537	0.792	-0.027	0.346	-15.1	25.7	29.8
108	85.7	0.422	0.54	0.781	-0.027	0.351	-15.9	25.5	30.0
109	85.1	0.418	0.542	0.771	-0.028	0.356	-16.7	25.3	30.3
110	84.5	0.414	0.545	0.76	-0.028	0.361	-17.4	25.0	30.6



see similar files: <http://130.149.60.45/~farbmatrik/VE43/VE43L.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



<http://130.149.60.45/~farbmatrik/VE43/VE43LONP.PDF> /PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 4/5

rgb^*_{cab} 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 90 intended hues angles:

180, 181, ..., 269, 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

no-ab _Y	x	y	a	b	C _{ab}	h _{ab}	L*	a*	b*	C _{ab}	h _{ab}	rgb [*] _{cab}	Code _{ab}
180	58.5	0.183	0.449	0.487	-0.326	0.557	-32.6	0.1	32.6	178.6	81.0	-104.4 0.5	0.00 0.31 0.6158
181	58.4	0.182	0.443	0.411	-0.337	0.415	-31.2	0.1	32.3	183.2	81.2	-103.3 -1.2	0.00 0.33 0.6158
182	58.4	0.181	0.437	0.415	-0.347	0.548	-32.0	-1.0	32.0	178.6	81.0	-102.2 -2.9	102.2 1.81 0.00 1.00 0.35 0.6158
183	58.4	0.181	0.431	0.42	-0.358	0.544	-31.7	-1.6	31.8	183.0	80.9	-101.1 -4.7	101.2 1.82 0.00 1.00 0.37 0.6188
184	58.3	0.18	0.425	0.424	-0.369	0.541	-31.5	-2.3	31.5	184.2	80.9	-99.9 -6.4	100.1 1.83 0.00 1.00 0.39 0.6198
185	58.3	0.18	0.419	0.42	-0.38	0.537	-31.2	-2.2	31.3	185.0	80.9	-98.7 -8.1	99.1 1.84 0.00 1.00 0.41 0.6218
186	58.2	0.179	0.414	0.433	-0.391	0.534	-30.9	-3.6	31.1	186.0	80.9	-97.6 -9.8	98.1 1.85 0.00 1.00 0.43 0.6218
187	58.2	0.179	0.408	0.438	-0.403	0.53	-30.6	-4.2	30.9	187.0	80.9	-96.4 -11.5	97.1 1.86 0.00 1.00 0.45 0.6228
188	58.2	0.178	0.403	0.443	-0.414	0.527	-30.3	-4.9	30.7	189.2	80.8	-95.2 -13.1	96.1 1.87 0.00 1.00 0.47 0.6238
189	58.2	0.178	0.397	0.448	-0.425	0.525	-30.0	-5.5	30.5	190.5	80.8	-94.1 -14.8	95.1 1.88 0.00 1.00 0.49 0.6248
190	58.1	0.177	0.392	0.452	-0.437	0.52	-29.7	-6.1	30.3	191.8	80.8	-93.0 -16.3	94.1 1.89 0.00 1.00 0.51 0.6258
191	58.1	0.177	0.387	0.458	-0.449	0.519	-29.4	-6.9	30.2	193.2	80.8	-91.6 -18.0	93.1 1.90 0.00 1.00 0.53 0.6268
192	58.1	0.177	0.382	0.464	-0.46	0.517	-29.0	-7.6	30.0	194.6	80.8	-90.2 -19.6	92.2 1.90 0.00 1.00 0.55 0.6278
193	58.1	0.177	0.377	0.469	-0.472	0.514	-28.7	-8.2	29.9	196.0	80.8	-89.0 -21.2	91.5 1.93 0.00 1.00 0.57 0.6288
194	58.1	0.176	0.372	0.474	-0.483	0.512	-28.4	-8.9	29.9	197.4	80.8	-87.7 -22.7	90.6 1.94 0.00 1.00 0.59 0.6298
195	58.1	0.176	0.367	0.48	-0.494	0.511	-28.1	-9.5	29.9	198.8	80.8	-86.5 -24.1	89.9 1.95 0.00 1.00 0.61 0.6308
196	58.1	0.176	0.363	0.485	-0.505	0.51	-27.8	-10.2	29.6	200.1	80.8	-85.3 -25.5	89.0 1.96 0.00 1.00 0.63 0.6318
197	58.0	0.176	0.359	0.49	-0.516	0.509	-27.5	-10.8	29.5	201.4	80.7	-84.1 -26.8	88.3 1.97 0.00 1.00 0.65 0.6328
198	58.0	0.176	0.355	0.495	-0.526	0.508	-27.2	-11.3	29.5	202.8	80.7	-83.1 -28.0	87.7 1.98 0.00 1.00 0.67 0.6338
199	58.0	0.175	0.352	0.499	-0.535	0.508	-26.9	-11.9	29.4	203.8	80.7	-82.0 -29.2	87.1 1.99 0.00 1.00 0.69 0.6348
200	57.9	0.175	0.348	0.503	-0.544	0.507	-26.6	-12.5	29.3	204.9	80.7	-80.9 -30.3	86.4 1.99 0.00 1.00 0.71 0.6358
201	57.9	0.175	0.345	0.507	-0.553	0.508	-26.4	-12.9	29.4	206.0	80.6	-80.2 -31.3	86.1 2.01 0.00 1.00 0.73 0.6368
202	57.8	0.175	0.343	0.511	-0.561	0.508	-26.2	-13.3	29.4	207.0	80.6	-79.4 -32.2	85.7 2.01 0.00 1.00 0.75 0.6378
203	57.6	0.174	0.338	0.516	-0.576	0.511	-25.8	-14.2	29.4	208.8	80.5	-78.2 -34.0	85.3 2.03 0.00 1.00 0.77 0.6388
204	56.6	0.171	0.335	0.51	-0.589	0.522	-25.5	-14.5	29.3	209.7	79.6	-78.8 -35.1	85.3 2.04 0.00 1.00 0.79 0.6398
205	56.6	0.171	0.331	0.506	-0.598	0.52	-25.2	-14.8	29.3	210.7	79.6	-78.2 -36.6	85.3 2.05 0.00 1.00 0.81 0.6408
206	52.9	0.164	0.326	0.503	-0.623	0.546	-24.3	-15.5	28.9	212.4	77.8	-78.8 -38.2	87.6 2.06 0.00 1.00 0.83 0.6418
207	51.2	0.16	0.321	0.499	-0.643	0.56	-23.8	-16.0	28.7	214.0	76.8	-78.7 -39.9	88.8 2.06 0.00 1.00 0.85 0.6428
208	49.5	0.157	0.316	0.496	-0.665	0.575	-23.1	-16.6	28.5	215.6	75.8	-78.5 -41.8	89.0 2.07 0.00 1.00 0.87 0.6438
209	47.9	0.153	0.311	0.493	-0.687	0.591	-22.5	-17.1	28.3	217.2	74.7	-78.3 -43.4	89.5 2.08 0.00 1.00 0.89 0.6448
210	46.4	0.15	0.306	0.489	-0.709	0.607	-21.8	-17.6	28.1	218.8	73.8	-78.0 -45.0	89.9 2.09 0.00 1.00 0.91 0.6458
211	44.9	0.147	0.301	0.489	-0.732	0.622	-21.3	-18.1	28.0	220.2	72.8	-77.5 -46.6	90.4 2.10 0.00 1.00 0.93 0.6468
212	43.7	0.145	0.296	0.489	-0.753	0.636	-20.7	-18.5	27.8	221.7	72.0	-76.8 -48.0	90.6 2.11 0.00 1.00 0.95 0.6478
213	42.6	0.143	0.292	0.49	-0.772	0.648	-20.2	-18.8	27.6	223.0	71.3	-75.9 -49.3	90.5 2.13 0.00 1.00 0.97 0.6488
214	41.2	0.141	0.287	0.493	-0.791	0.659	-19.7	-19.2	27.4	224.5	70.5	-75.0 -50.5	90.9 2.14 0.00 1.00 0.99 0.6498
215	40.6	0.14	0.284	0.493	-0.81	0.672	-19.1	-19.5	27.3	225.5	69.9	-74.0 -51.7	90.8 2.14 0.00 1.00 0.98 0.6498
216	39.6	0.138	0.28	0.495	-0.829	0.685	-18.6	-19.8	27.2	226.8	69.2	-73.1 -52.9	90.2 2.15 0.00 1.00 0.96 0.6498
217	38.7	0.137	0.275	0.497	-0.85	0.698	-18.0	-20.1	27.0	228.1	68.5	-72.1 -54.0	90.1 2.16 0.00 1.00 0.94 0.6498
218	37.7	0.136	0.271	0.5	-0.871	0.713	-17.5	-20.4	26.9	229.4	67.8	-70.9 -55.2	89.9 2.17 0.00 1.00 0.92 0.6498
219	36.7	0.135	0.267	0.503	-0.891	0.728	-16.9	-20.7	26.8	230.7	67.1	-69.8 -56.4	89.7 2.18 0.00 1.00 0.90 0.6498
220	36.1	0.133	0.264	0.505	-0.91	0.739	-16.5	-20.9	26.7	231.6	66.6	-68.9 -57.3	89.7 2.19 0.00 1.00 0.88 0.6498
221	35.5	0.132	0.261	0.507	-0.926	0.751	-16.2	-21.1	26.6	232.5	66.1	-68.1 -58.1	89.6 2.20 0.00 1.00 0.86 0.6498
222	34.8	0.131	0.258	0.51	-0.944	0.763	-15.8	-21.4	26.6	233.5	65.6	-67.1 -59.0	89.6 2.21 0.00 1.00 0.84 0.6498
223	34.1	0.131	0.254	0.514	-0.964	0.777	-15.3	-21.6	26.5	234.6	65.0	-66.0 -60.0	89.6 2.22 0.00 1.00 0.82 0.6498
224	33.4	0.129	0.251	0.516	-0.984	0.791	-14.8	-21.8	26.4	235.6	64.5	-65.1 -61.1	89.6 2.23 0.00 1.00 0.80 0.6498
225	32.4	0.129	0.246	0.525	-1.015	0.813	-14.2	-22.2	26.3	237.3	63.6	-62.8 -64.2	88.6 2.24 0.00 1.00 0.78 0.6498
226	31.7	0.128	0.242	0.53	-1.036	0.828	-13.7	-22.4	26.2	238.4	63.1	-61.5 -63.3	88.3 2.25 0.00 1.00 0.76 0.6498
227	31.2	0.128	0.24	0.534	-1.052	0.84	-13.4	-22.5	26.2	239.2	62.7	-60.5 -64.0	88.1 2.26 0.00 1.00 0.74 0.6498
228	30.7	0.127	0.237	0.538	-1.068	0.852	-13.0	-22.7	26.2	240.8	62.3	-59.5 -64.7	87.9 2.27 0.00 1.00 0.72 0.6498
229	30.2	0.127	0.234	0.543	-1.084	0.865	-12.5	-22.9	26.1	242.0	61.8	-58.4 -65.4	87.9 2.28 0.00 1.00 0.70 0.6498
230	29.7	0.127	0.232	0.547	-1.104	0.879	-12.3	-23.0	26.1	243.7	61.4	-57.3 -66.2	87.9 2.29 0.00 1.00 0.68 0.6498
231	29.2	0.126	0.229	0.552	-1.123	0.893	-12.0	-23.2	26.1	244.6	61.0	-56.1 -66.9	87.9 2.30 0.00 1.00 0.66 0.6498
232	28.7	0.126	0.226	0.558	-1.143	0.909	-11.6	-23.3	26.1	245.4	60.5	-54.9 -67.7	87.9 2.31 0.00 1.00 0.64 0.6498
233	28.2	0.125	0.223	0.563	-1.164	0.925	-11.2	-23.5	26.1	246.3	60.0	-53.6 -68.5	87.9 2.32 0.00 1.00 0.62 0.6498
234	27.7	0.125	0.22	0.569	-1.185	0.943	-10.9	-23.7	26.0	247.2	59.5	-52.4 -69.3	86.6 2.33 0.00 1.00 0.60 0.6498
235	27.1	0.125	0.217	0.566	-1.209	0.961	-10.5	-23.8	26.1	248.1	59.1	-51.0 -70.1	86.7 2.33 0.00 1.00 0.58 0.6498
236	26.6	0.124	0.214	0.582	-1.233	0.98	-10.1	-24.0	26.1	249.1	58.6	-49.6 -71.0	86.6 2.35 0.00 1.00 0.56 0.6498
237	26.0	0.124	0.211	0.589	-1.258	1.001	-9.7	-24.2	26.1	248.8	58.1	-48.2 -71.8	86.5 2.36 0.00 1.00 0.54 0.6498
238	25.5	0.123	0.208	0.596	-1.284	1.022	-9.3	-24.4	26.1	248.0	57.6	-46.8 -72.7	86.5 2.37 0.00 1.00 0.52 0.6498
239	25.0	0.123	0.204	0.604	-1.311	1.045	-8.9	-24.5	26.1	248.0	57.1	-45.3 -73.5	86.4 2.38 0.00 1.00 0.50 0.6498
240	24.4	0.123	0.201	0.613	-1.339	1.068	-8.6	-24.7	26.1	248.0	56.5	-43.8 -74.4	86.4 2.39 0.00 1.00 0.48 0.6498
241	23.9	0.123	0.198	0.621	-1.368	1.093	-8.2	-24.8	26.2	251.7	56.0	-42.2 -75.3	86.4 2.40 0.00 1.00 0.46 0.6498
242	23.4	0.123	0.195	0.63	-1.398	1.119	-7.8	-25.0	26.2	252.6	55.5	-40.7 -76.2	86.4 2.41 0.00 1.00 0.44 0.6498
243	22.9	0.122	0.192	0.639	-1.425	1.142	-7.4	-25.1	26.2	253.4	55.0	-39.2 -77.0	86.4 2.42 0.00 1.00 0.42 0.6498
244	22.5	0.122	0.189	0.647	-1.451	1.164	-7.1	-25.3	26.3	254.2	54.6	-37.8 -77.7	86.4 2.44 0.00 1.00 0.40 0.6498
245	22.1	0.122	0.186	0.656	-1.477	1.187	-6.8	-25.4	26.3	254.9	54.2	-36.3 -78.4	86.4 2.45 0.00 1.00 0.38 0.6498
246	21.7	0.122	0.184	0.665	-1.503	1.211	-6.5	-25.5	26.3	255.7	53.7	-34.9 -79.1	86.5 2.46 0.00 1.00 0.36 0.6498
247	21.3	0.122	0.181	0.674	-1.53	1.235	-6.1	-25.6	26.4	256.4	53.3	-33.5 -79.8	86.6 2.47 0.00 1.00 0.34 0.6498
248	20.9	0.122	0.179	0.683	-1.558	1.26	-5.8	-25.7	26.4	257.1	52.9	-32.0 -80.5	86.7 2.48 0.00 1.00

http://130.149.60.45/~farbmatrik/VE43/VE43L0NP.PDF /.PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 5/5

see similar files: <http://130.149.60.45/~farbmatrik/VE43/VE43L0NP.PDF> or <http://130.149.60.45/~farbmatrik>

rgb^*_{cab} 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 hues: $h_{ab} = 27.1, 88.5, 164.3, 263.9$ of CIELAB, and 90 intended hues: angles:

270, 271, ..., 360, 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

no-ab _Y	x	y	a	b	C _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{cab}	Code _{ab}			
270	13.9	0.124	0.128	0.964	-2.321	1.991	0.0	-27.8	27.8	278.0	44.2	0.0	-95.1	95.1	278.0	0.09	0.00	1.00	% B08R
271	13.7	0.124	0.126	0.982	-2.312	1.985	0.2	-27.7	27.9	278.1	44.3	0.1	-95.2	95.2	278.1	0.09	0.00	1.00	% B08R
272	13.4	0.124	0.124	1.0	-2.41	2.081	0.4	-28.0	28.0	279.0	43.4	3.1	-96.3	96.4	271.9	0.13	0.00	1.00	% B07R
273	13.1	0.124	0.122	1.021	-2.459	2.13	0.7	-28.0	28.0	279.5	43.0	4.9	-97.0	97.1	272.8	0.14	0.00	1.00	% B07R
274	12.8	0.125	0.12	1.043	-2.512	2.183	1.0	-28.1	28.1	272.0	42.6	6.7	-97.7	97.9	273.9	0.16	0.00	1.00	% B08R
275	12.5	0.125	0.117	1.067	-2.569	2.242	1.3	-28.2	28.2	272.6	42.1	8.6	-98.4	98.8	275.0	0.17	0.00	1.00	% B08R
276	12.2	0.126	0.115	1.093	-2.632	2.365	1.5	-28.3	28.3	273.1	41.6	10.6	-99.2	99.8	276.1	0.19	0.00	1.00	% B09R
277	11.9	0.126	0.112	1.121	-2.698	2.373	1.8	-28.3	28.4	273.7	41.1	12.7	-100.0	100.8	277.2	0.21	0.00	1.00	% B10R
278	11.6	0.126	0.11	1.151	-2.767	2.444	2.1	-28.4	28.5	274.3	40.6	14.8	-100.8	101.9	278.3	0.22	0.00	1.00	% B11R
279	11.3	0.127	0.107	1.181	-2.84	2.552	2.4	-28.4	28.6	274.9	40.1	16.9	-101.6	103.0	279.4	0.24	0.00	1.00	% B12R
280	11.0	0.127	0.105	1.214	-2.917	2.599	2.7	-28.5	28.7	275.5	39.6	19.0	-102.4	104.1	280.5	0.26	0.00	1.00	% B13R
281	10.7	0.128	0.102	1.248	-2.998	2.683	3.0	-28.6	28.7	276.0	39.1	21.3	-103.2	105.4	281.6	0.27	0.00	1.00	% B13R
282	10.4	0.128	0.1	1.284	-3.082	2.77	3.3	-28.6	28.8	276.6	38.5	23.5	-104.0	106.7	282.7	0.29	0.00	1.00	% B14R
283	10.1	0.128	0.097	1.321	-3.169	2.861	3.6	-28.7	28.9	277.1	38.0	25.7	-104.9	108.0	283.8	0.3	0.00	1.00	% B15R
284	9.8	0.129	0.095	1.359	-3.259	2.955	3.8	-28.8	28.9	277.6	37.5	28.0	-105.7	109.4	284.8	0.32	0.00	1.00	% B16R
285	9.5	0.129	0.092	1.399	-3.352	3.053	4.1	-28.9	29.1	278.1	37.0	30.2	-106.5	110.7	285.8	0.34	0.00	1.00	% B17R
286	9.2	0.13	0.09	1.44	-3.447	3.154	4.4	-28.9	29.2	278.6	36.5	32.4	-107.3	112.1	286.7	0.35	0.00	1.00	% B17R
287	9.0	0.13	0.088	1.482	-3.545	3.257	4.6	-28.9	29.3	279.1	36.0	34.5	-108.1	113.5	287.7	0.37	0.00	1.00	% B18R
288	8.7	0.131	0.085	1.525	-3.645	3.363	4.9	-29.0	29.4	279.6	35.5	36.6	-108.9	114.9	288.6	0.39	0.00	1.00	% B19R
289	8.5	0.131	0.083	1.569	-3.747	3.47	5.1	-29.0	29.5	279.6	35.0	38.7	-109.7	116.3	289.4	0.4	0.00	1.00	% B20R
290	8.2	0.132	0.081	1.611	-3.849	3.579	5.4	-29.1	29.6	280.1	34.5	40.8	-110.6	117.7	290.4	0.41	0.00	1.00	% B21R
291	8.0	0.132	0.079	1.657	-3.952	3.688	5.5	-29.1	29.6	280.8	34.0	42.7	-111.2	119.1	291.0	0.43	0.00	1.00	% B21R
292	7.4	0.13	0.074	1.738	-4.241	3.987	5.7	-29.2	29.8	281.1	32.8	45.7	-113.1	122.0	292.0	0.45	0.00	1.00	% B22R
293	6.9	0.128	0.07	1.817	-4.529	4.285	5.9	-29.3	29.9	281.4	31.7	48.4	-114.8	124.6	292.8	0.47	0.00	1.00	% B23R
294	6.6	0.127	0.067	1.892	-4.77	4.536	6.1	-29.3	30.0	281.8	30.9	50.9	-116.1	126.8	293.6	0.48	0.00	1.00	% B24R
295	6.3	0.127	0.065	1.966	-4.985	4.789	6.3	-29.3	30.1	282.2	30.4	53.0	-117.6	129.0	294.4	0.5	0.00	1.00	% B25R
296	6.3	0.131	0.064	2.038	-4.982	4.775	6.7	-29.3	30.1	283.0	30.1	56.4	-117.1	130.0	295.7	0.52	0.00	1.00	% B26R
297	6.3	0.136	0.064	2.104	-4.912	4.721	7.2	-29.2	30.1	283.9	30.3	59.3	-116.6	130.9	296.9	0.53	0.00	1.00	% B26R
298	6.5	0.141	0.065	2.144	-4.813	4.635	7.6	-29.1	30.1	284.7	30.6	61.3	-116.0	131.3	297.8	0.55	0.00	1.00	% B27R
299	6.6	0.146	0.066	2.181	-4.793	4.539	7.9	-29.0	30.1	285.5	31.0	63.3	-115.4	131.6	298.7	0.56	0.00	1.00	% B28R
300	6.9	0.15	0.068	2.215	-4.684	4.431	8.1	-28.9	30.1	286.3	31.3	65.3	-114.8	131.9	299.6	0.57	0.00	1.00	% B29R
301	7.0	0.156	0.069	2.256	-4.557	4.324	9.0	-28.9	30.3	287.3	31.8	67.5	-113.9	132.4	300.6	0.6	0.00	1.00	% B30R
302	7.2	0.162	0.07	2.293	-4.323	4.208	9.5	-28.8	30.3	288.4	32.2	69.6	-113.0	132.7	301.6	0.61	0.00	1.00	% B30R
303	7.4	0.168	0.072	2.328	-4.184	4.088	10.1	-28.7	30.4	289.4	32.8	71.8	-112.0	133.1	302.6	0.63	0.00	1.00	% B31R
304	7.7	0.174	0.075	2.367	-4.045	3.968	10.7	-28.6	30.4	290.4	33.4	74.0	-111.0	133.4	303.6	0.64	0.00	1.00	% B32R
305	7.9	0.182	0.076	2.393	-3.896	3.842	11.4	-28.4	30.6	291.8	33.9	76.1	-109.9	133.7	304.7	0.66	0.00	1.00	% B33R
306	8.2	0.189	0.078	2.422	-3.75	3.718	12.2	-28.3	30.8	293.4	34.5	78.3	-108.8	134.1	305.7	0.68	0.00	1.00	% B34R
307	8.6	0.196	0.08	2.449	-3.694	3.595	12.7	-28.1	30.9	294.4	35.2	80.4	-107.6	134.4	306.7	0.69	0.00	1.00	% B35R
308	8.9	0.204	0.082	2.474	-3.558	3.473	13.5	-28.0	31.1	295.7	35.9	82.6	-106.3	134.6	307.8	0.71	0.00	1.00	% B36R
309	9.3	0.211	0.085	2.501	-3.417	3.351	14.3	-27.9	31.2	296.7	36.6	84.7	-105.2	134.9	308.8	0.72	0.00	1.00	% B37R
310	9.7	0.219	0.087	2.517	-3.171	3.238	15.1	-27.7	31.5	298.6	37.3	86.7	-103.6	135.1	309.9	0.74	0.00	1.00	% B38R
311	10.1	0.227	0.089	2.534	-3.032	3.125	16.0	-27.5	31.8	300.1	38.1	88.7	-102.2	135.4	310.9	0.76	0.00	1.00	% B39R
312	10.6	0.236	0.092	2.548	-2.896	3.016	16.8	-27.3	32.1	301.6	38.9	90.6	-100.7	135.5	311.9	0.78	0.00	1.00	% B40R
313	11.1	0.244	0.095	2.559	-2.764	2.91	17.7	-27.1	32.4	303.2	39.8	92.5	-99.2	135.7	312.9	0.79	0.00	1.00	% B41R
314	11.6	0.252	0.098	2.569	-2.632	2.809	18.5	-26.9	32.7	304.7	40.7	94.4	-97.6	135.9	313.9	0.81	0.00	1.00	% B42R
315	12.3	0.261	0.102	2.562	-2.489	2.686	19.7	-26.6	33.2	306.5	41.7	95.9	-95.7	135.5	315.0	0.82	0.00	1.00	% B43R
316	13.2	0.271	0.107	2.54	-2.32	2.539	20.8	-26.3	33.6	308.3	43.1	97.1	-93.3	134.7	316.1	0.84	0.00	1.00	% B44R
317	14.1	0.281	0.112	2.516	-2.163	2.402	22.0	-26.0	34.0	310.2	44.5	98.2	-90.9	133.8	317.2	0.86	0.00	1.00	% B45R
318	15.2	0.291	0.117	2.489	-2.018	2.275	23.1	-25.6	34.5	312.0	45.9	99.2	-88.4	132.9	318.2	0.87	0.00	1.00	% B46R
319	16.4	0.301	0.122	2.451	-1.874	2.148	24.3	-25.3	34.9	313.8	47.3	100.3	-85.9	132.0	319.2	0.89	0.00	1.00	% B47R
320	17.3	0.31	0.127	2.432	-1.761	2.05	25.5	-24.8	35.6	315.7	48.7	100.8	-83.4	130.8	320.3	0.9	0.00	1.00	% B48R
321	18.5	0.319	0.132	2.403	-1.649	1.952	26.6	-24.4	36.1	317.4	50.1	101.4	-80.9	129.7	321.4	0.92	0.00	1.00	% B49R
322	19.7	0.327	0.138	2.373	-1.546	1.862	27.8	-24.0	36.7	319.2	51.5	101.9	-78.4	128.6	322.4	0.94	0.00	1.00	% B47R
323	20.9	0.335	0.143	2.344	-1.453	1.779	28.9	-23.5	37.2	320.8	52.9	102.7	-75.9	127.4	323.4	0.95	0.00	1.00	% B48R
324	22.2	0.343	0.148	2.315	-1.368	1.704	30.0	-23.0	37.8	322.4	54.2	102.7	-73.4	126.2	324.4	0.96	0.00	1.00	% B49R
325	23.4	0.35	0.153	2.288	-1.292	1.636	31.0	-22.5	38.4	323.9	55.5	102.9	-71.1	125.1	325.4	0.98	0.00	1.00	% B49R
326	24.7	0.357	0.158	2.261	-1.223	1.574	32.0	-22.1	38.9	325.4	56.8	103.1	-68.7	123.9	326.3	1.00	0.00	0.99	% B50R
327	25.9	0.364	0.162	2.235	-1.161	1.519	33.0	-21.6	39.4	326.8	58.0	103.2	-66.5	122.8	327.2	1.00	0.00	0.97	% B51R
328	27.2	0.37	0.167	2.21	-1.105	1.466	34.0	-21.1	39.9	328.1	59.3	103.3	-64.3	121.6	328.0	1.00	0.00	0.96	% B51R
329	28.8	0.378	0.173	2.182	-1.033	1.406	35.1	-20.2	40.5	329.9	60.6	103.3	-61.1	120.1	329.3	1.00	0.00	0.95	% B52R
330	30.4	0.387	0.179	2.155	-0.964	1.347	36.1	-19.2	41.0	331.3	62.0	103.7	-57.7	118.3	330.7	1.00	0.00		