

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 234/360 = 0.65$

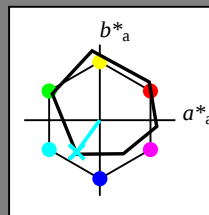
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours of this page:

$H^*_ = G50B_-$

triangle lightness T^*



ORS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R-,Ma	47.9	65.3	50.5	82.6	37
Y-,Ma	90.3	-10.2	91.7	92.3	96
G-,Ma	50.9	-62.8	34.9	71.9	150
C-,Ma	58.6	-30.3	-45.0	54.2	236
B-,Ma	25.7	31.0	-44.4	54.2	305
M-,Ma	48.1	75.2	-8.3	75.7	353
N-,Ma	18.0	0.0	0.0	0.0	0
W-,Ma	95.4	0.0	0.0	0.0	0
R-,CIE	39.9	58.7	27.9	65.0	25
Y-,CIE	81.2	-2.8	71.5	71.6	92
G-,CIE	52.2	-42.4	13.6	44.5	162
B-,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$: 63 -30 -42 51 234

$HIC^*_{-,Ma}$: G50B_100_100-

$rgbic^*_{-,Ma}$:

0.0 1.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

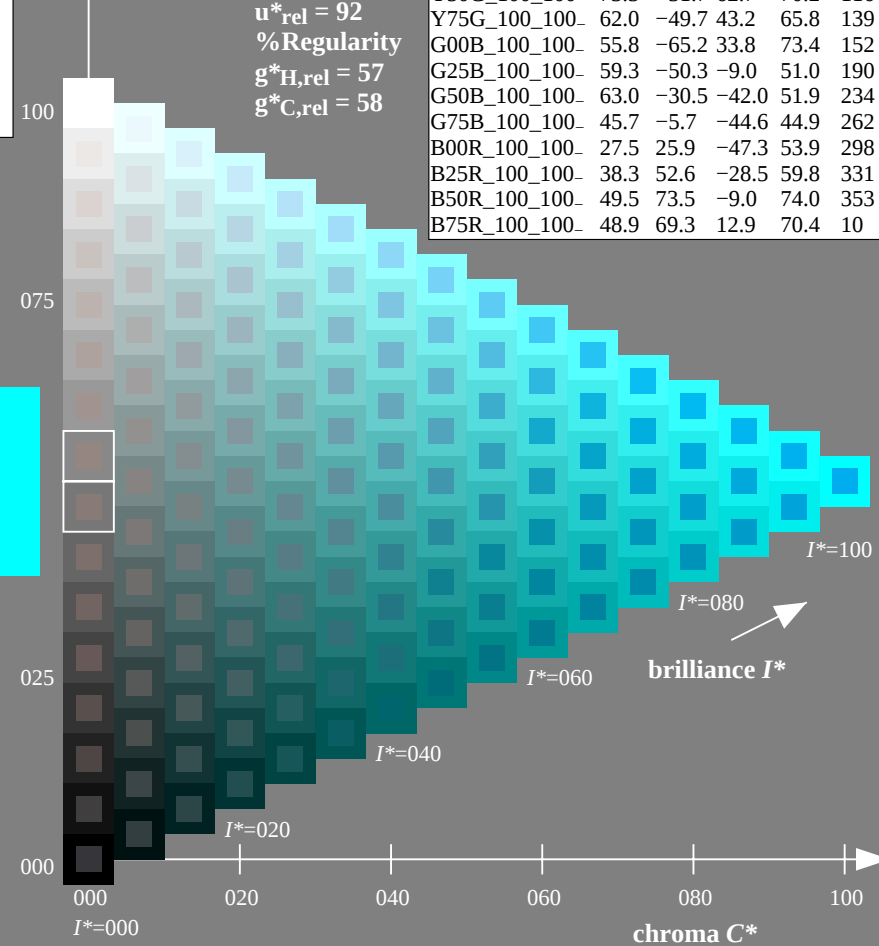
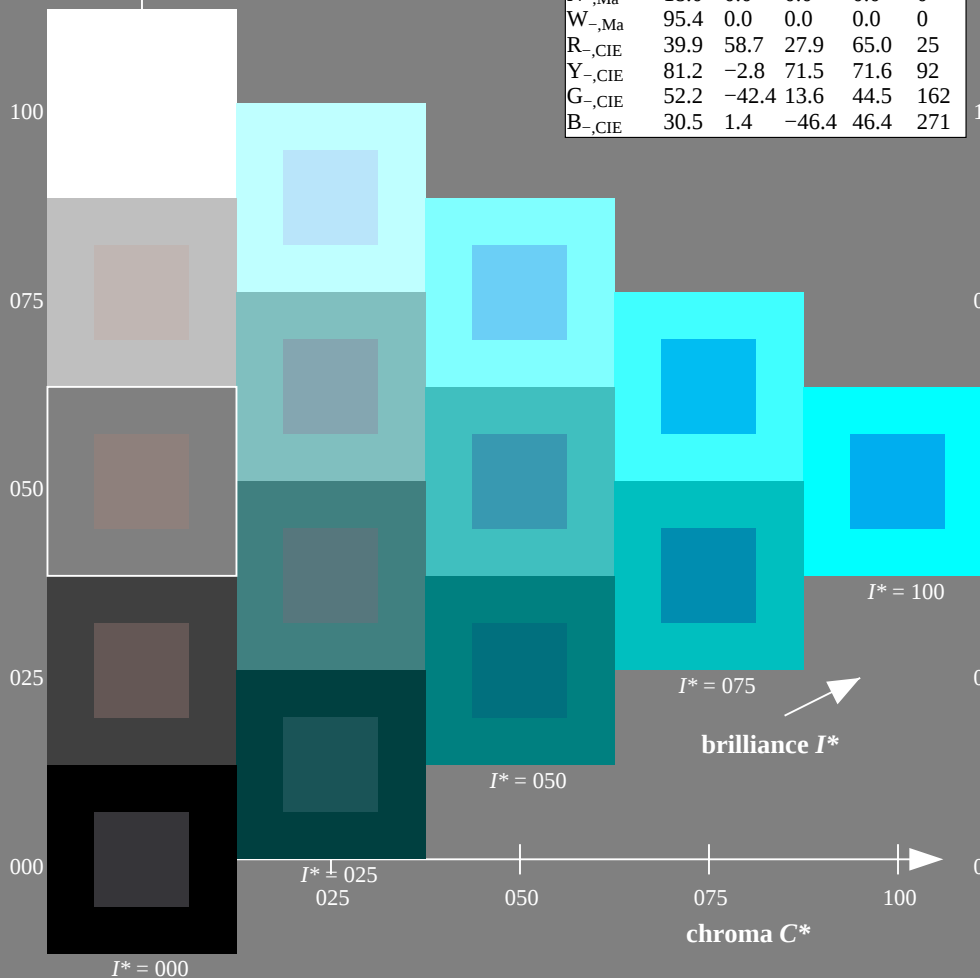
% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

ORS20a; adapted (a) CIELAB data

$H^*_$	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100-	48.4	66.1	40.2	77.3	31
R25Y_100_100-	56.8	48.0	50.5	69.6	46
R50Y_100_100-	68.6	25.0	63.9	68.6	68
R75Y_100_100-	80.6	4.8	77.2	77.3	86
Y00G_100_100-	90.2	-9.6	88.2	88.7	96
Y25G_100_100-	83.2	-18.4	79.9	81.9	102
Y50G_100_100-	73.3	-31.7	62.7	70.2	116
Y75G_100_100-	62.0	-49.7	43.2	65.8	139
G00B_100_100-	55.8	-65.2	33.8	73.4	152
G25B_100_100-	59.3	-50.3	-9.0	51.0	190
G50B_100_100-	63.0	-30.5	-42.0	51.9	234
G75B_100_100-	45.7	-5.7	-44.6	44.9	262
B00R_100_100-	27.5	25.9	-47.3	53.9	298
B25R_100_100-	38.3	52.6	-28.5	59.8	331
B50R_100_100-	49.5	73.5	-9.0	74.0	353
B75R_100_100-	48.9	69.3	12.9	70.4	10



TUB-test chart QE91; hue code: $H^*_ = G50B_-$
Test chart according to DIN 33872, 3D=0, de=0, sRGB

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Television Luminous System TLS00a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 196/360 = 0.54$

$H^*_d = G50B_d$

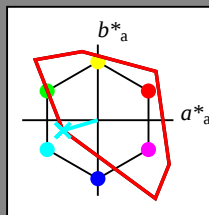
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G50B_d$

triangle lightness T^*



TLS00a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _d ,Ma	50.4	76.9	64.5	100.4	40
Y _d ,Ma	92.6	-20.7	90.7	93.0	102
G _d ,Ma	83.6	-82.7	79.8	115.0	136
C _d ,Ma	86.8	-46.1	-13.5	48.1	196
B _d ,Ma	30.3	76.0	-103.5	128.5	306
M _d ,Ma	57.2	94.3	-58.4	110.9	328
N _d ,Ma	0.0	0.0	0.0	0.0	0
W _d ,Ma	95.4	0.0	0.0	0.0	0
R _d ,CIE	39.9	58.7	27.9	65.0	25
Y _d ,CIE	81.2	-2.8	71.5	71.6	92
G _d ,CIE	52.2	-42.4	13.6	44.5	162
B _d ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_d, Ma$: 86 -46 -13 48 196

HIC^*_d, Ma : G50B_100_100_d

$rgbic^*_d, Ma$:

0.0 1.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 158$

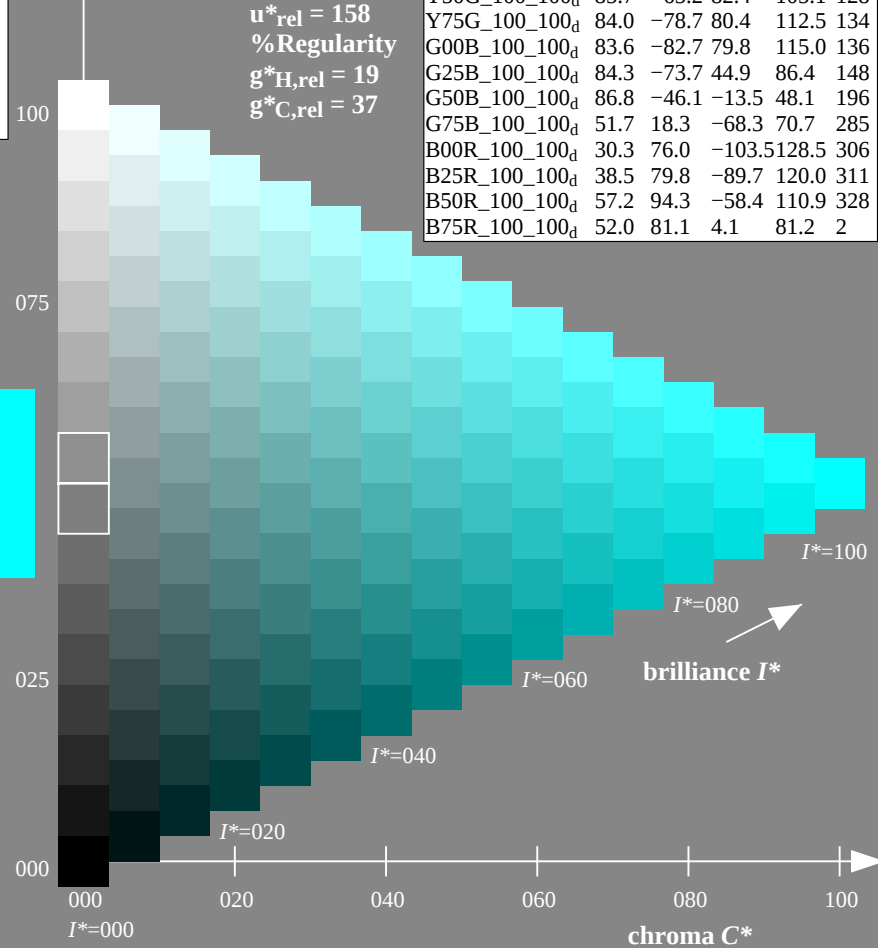
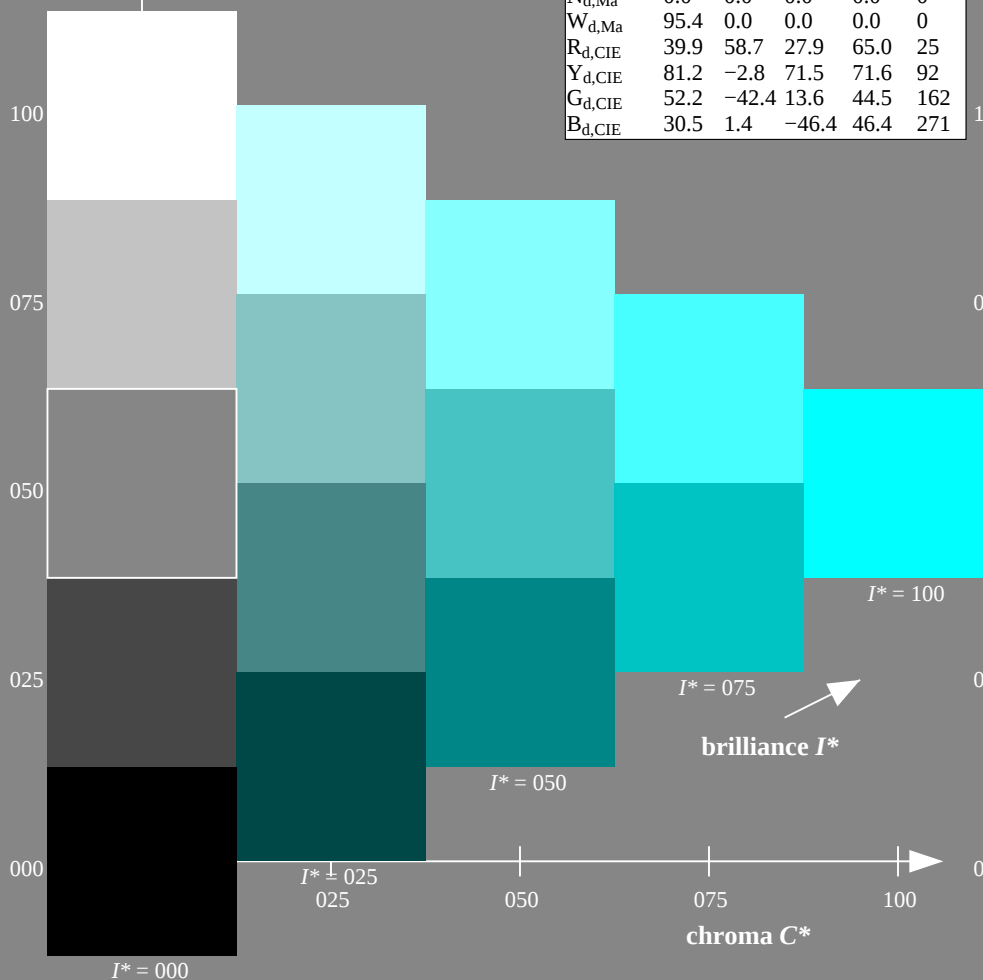
% Regularity

$g^*_{H,rel} = 19$

$g^*_{C,rel} = 37$

TLS00a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _d	50.4	76.9	64.5	100.4	40
R25Y_100_100 _d	53.7	67.6	65.8	94.4	44
R50Y_100_100 _d	63.6	41.3	71.0	82.2	59
R75Y_100_100 _d	78.2	7.8	80.6	81.0	84
Y00G_100_100 _d	92.6	-20.7	90.7	93.0	102
Y25G_100_100 _d	88.7	-43.3	86.2	96.5	116
Y50G_100_100 _d	85.7	-65.2	82.4	105.1	128
Y75G_100_100 _d	84.0	-78.7	80.4	112.5	134
G00B_100_100 _d	83.6	-82.7	79.8	115.0	136
G25B_100_100 _d	84.3	-73.7	44.9	86.4	148
G50B_100_100 _d	86.8	-46.1	-13.5	48.1	196
G75B_100_100 _d	51.7	18.3	-68.3	70.7	285
B00R_100_100 _d	30.3	76.0	-103.5	128.5	306
B25R_100_100 _d	38.5	79.8	-89.7	120.0	311
B50R_100_100 _d	57.2	94.3	-58.4	110.9	328
B75R_100_100 _d	52.0	81.1	4.1	81.2	2



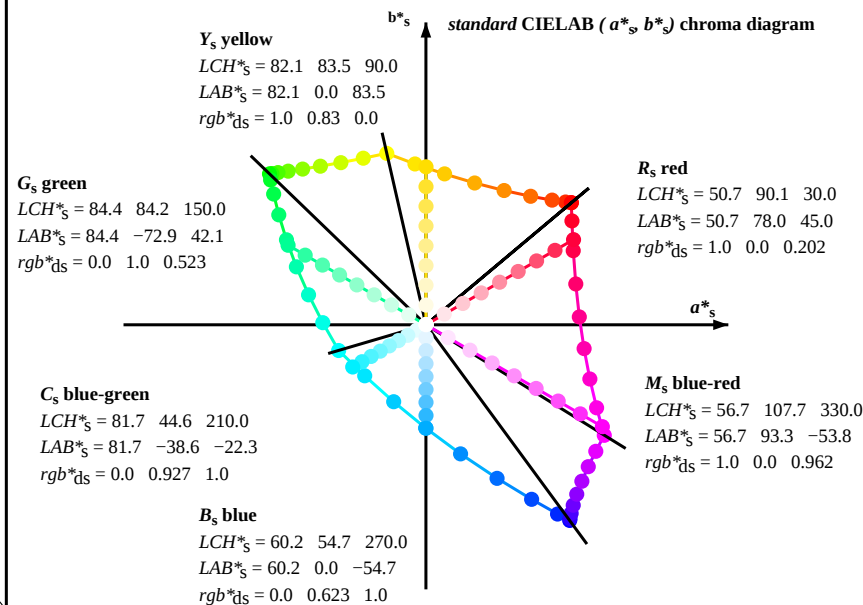
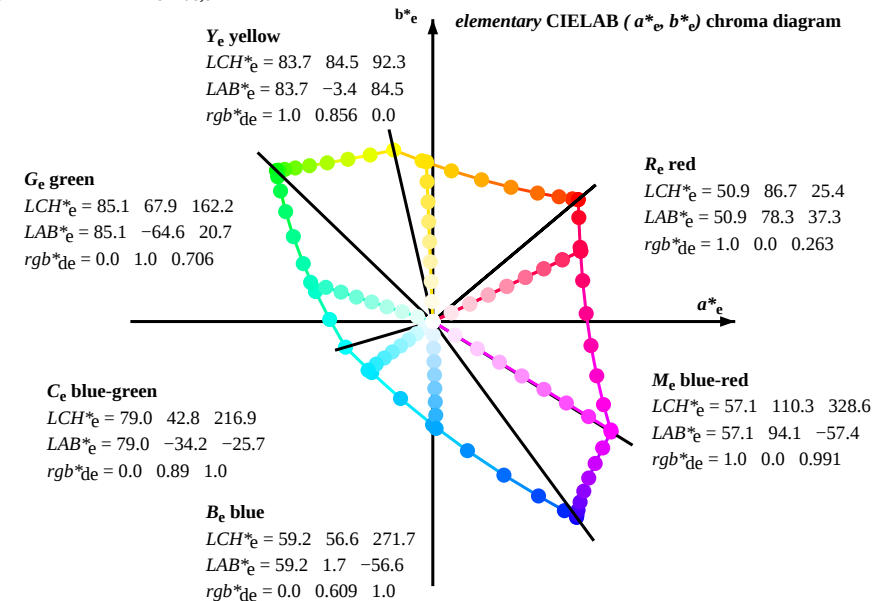
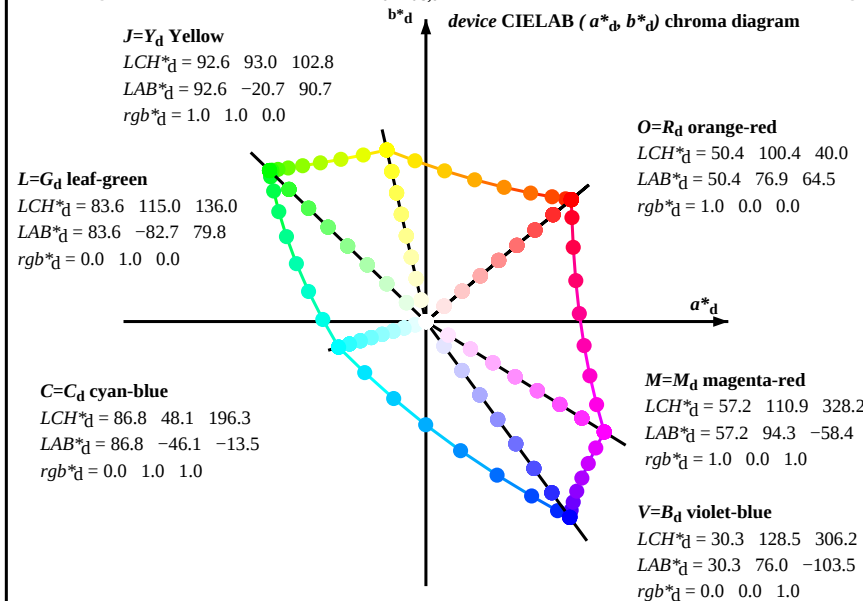
TUB-test chart QE91; hue code: $H^*_d = G50B_d$
Test chart according to DIN 33872, 3D=0, de=0, sRGB

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to rgb_d

TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_e the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.

6. The values rgb^*_{de} produce the output of the device-independent elementary hues

1-003230-L0 QE910-70 LAB*La0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 3/29

TUB-test chart QE91; hue code: $H^*_d = G50B_d$
48 step hue circles; $rgb-LabCh^*$ -tables

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to rgb_d

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	$LAB^*_{ddx64M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}														
40.0	30.0	25.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	40.0	40.0	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25				
41.3	37.5	33.8	1.0	0.125	0.0	51.5	73.9	64.9	98.3	41.3	41.3	1.0	0.0	0.156	50.7	77.7	51.0	92.9	33				
44.6	45.0	42.1	1.0	0.25	0.0	54.0	66.7	65.9	93.8	44.6	44.6	1.0	0.0	0.157	0.0	52.2	72.0	65.3	97.2	42			
50.7	52.5	50.5	1.0	0.375	0.0	58.2	55.4	67.9	87.7	50.7	50.7	1.0	0.0	0.358	0.0	57.7	56.9	67.8	88.6	49			
59.7	60.0	58.8	1.0	0.5	0.0	63.6	41.3	71.0	82.2	59.7	59.7	1.0	0.0	0.488	0.0	63.1	42.8	70.9	82.8	58			
71.0	67.5	67.2	1.0	0.625	0.0	70.1	25.7	75.0	79.3	71.0	71.0	1.0	0.0	0.577	0.0	67.6	31.8	73.9	80.5	66			
82.9	75.0	75.6	1.0	0.75	0.0	77.2	9.8	79.7	80.4	82.9	82.9	1.0	0.0	0.673	0.0	72.8	19.8	77.3	79.8	75			
93.8	82.5	83.9	1.0	0.875	0.0	84.8	-5.7	85.0	85.2	93.8	93.8	1.0	0.0	0.755	0.0	77.5	9.3	80.1	80.6	83			
102.8	90.0	92.3	1.0	1.0	0.0	92.6	-20.7	90.7	93.0	102.8	102.8	1.0	0.0	0.857	0.0	83.7	-3.3	84.5	84.6	92			
110.5	97.5	101.0	0.875	1.0	0.0	90.4	-33.1	88.1	94.1	110.5	110.5	1.0	0.0	0.967	0.0	90.6	-16.4	89.5	91.0	100			
117.6	105.0	109.7	0.75	1.0	0.0	88.5	-44.9	85.8	96.8	117.6	117.6	0.888	1.0	0.0	90.7	-31.7	88.5	94.0	109				
123.6	112.5	118.5	0.625	1.0	0.0	86.9	-55.8	83.9	100.7	123.6	123.6	0.743	1.0	0.0	88.5	-45.4	85.8	97.1	117				
128.3	120.0	127.2	0.5	1.0	0.0	85.7	-65.2	82.4	105.1	128.3	128.3	0.529	1.0	0.0	86.0	-62.9	82.9	104.1	127				
131.8	127.5	136.0	0.375	1.0	0.0	84.7	-72.8	81.2	109.1	131.8	131.8	0.132	1.0	0.0	83.8	-81.2	80.1	114.1	135				
134.1	135.0	144.7	0.25	1.0	0.0	84.1	-78.2	80.5	112.2	134.1	134.1	0.0	1.0	0.41	84.1	-76.8	54.3	94.1	144				
135.5	142.5	153.4	0.125	1.0	0.0	83.7	-81.4	80.0	114.2	135.5	135.5	0.0	1.0	0.573	84.6	-70.9	36.3	79.8	152				
136.0	150.0	162.2	0.0	1.0	0.0	83.6	-82.7	79.8	115.0	136.0	136.0	0.0	1.0	0.706	85.2	-64.6	20.7	67.9	162				
137.0	157.5	169.0	0.0	1.0	0.125	83.6	-82.1	76.6	112.3	137.0	137.0	0.0	1.0	0.778	85.5	-60.6	12.2	61.9	168				
139.3	165.0	175.9	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139.3	139.3	0.0	1.0	0.847	85.9	-56.4	4.0	56.7	175				
143.2	172.5	182.7	0.0	1.0	0.375	84.0	-77.8	58.1	97.1	143.2	143.2	0.0	1.0	0.9	86.2	-53.2	-2.0	53.3	182				
148.6	180.0	189.6	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148.6	148.6	0.0	1.0	0.952	86.6	-49.8	-8.3	50.6	189				
155.8	187.5	196.4	0.0	1.0	0.625	84.7	-68.5	30.6	75.0	155.8	155.8	0.0	1.0	0.997	86.9	-46.3	-13.2	48.3	195				
165.6	195.0	203.2	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165.6	165.6	0.0	0.963	1.0	84.3	-42.5	-18.2	46.4	203				
178.8	202.5	210.1	0.0	1.0	0.875	86.0	-54.5	1.0	54.5	178.8	178.8	0.0	0.929	1.0	81.8	-38.8	-22.1	44.7	209				
196.3	210.0	216.9	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196.3	196.3	0.0	0.89	1.0	79.1	-34.2	-25.7	42.9	216				
219.8	217.5	223.8	0.0	0.875	1.0	77.9	-32.3	-27.0	42.1	219.8	219.8	0.0	0.859	1.0	76.9	-30.7	-29.0	42.4	223				
247.2	225.0	230.6	0.0	0.75	1.0	69.1	-17.0	-40.7	44.1	247.2	247.2	0.0	0.826	1.0	74.5	-27.1	-33.1	43.0	230				
269.8	232.5	237.5	0.0	0.625	1.0	60.3	-0.1	-54.6	54.6	269.8	269.8	0.0	0.797	1.0	72.4	-23.5	-36.3	43.4	237				
285.0	240.0	244.3	0.0	0.5	1.0	51.7	18.3	-68.3	70.7	285.0	285.0	0.0	0.763	1.0	70.1	-18.9	-39.5	44.0	244				
294.8	247.5	251.2	0.0	0.375	1.0	43.8	37.6	-81.2	89.5	294.8	294.8	0.0	0.731	1.0	67.8	-15.0	-43.1	45.8	250				
301.1	255.0	258.0	0.0	0.25	1.0	37.1	55.9	-92.3	107.9	301.1	301.1	0.0	0.69	1.0	64.9	-10.1	-48.0	49.2	258				
304.8	262.5	264.8	0.0	0.125	1.0	32.4	69.5	-100.0	121.8	304.8	304.8	0.0	0.655	1.0	62.4	-5.0	-51.8	52.1	264				
306.2	270.0	271.7	0.0	0.0	1.0	30.3	76.0	-103.5	128.5	306.2	306.2	0.0	0.609	1.0	59.3	1.7	-56.5	56.6	271				
306.6	277.5	278.8	0.125	0.0	1.0	31.0	76.2	-102.4	127.7	306.6	306.6	0.0	0.555	1.0	55.5	9.3	-62.9	63.7	278				
307.5	285.0	285.9	0.25	0.0	1.0	32.6	76.8	-99.8	125.9	307.5	307.5	0.0	0.488	1.0	51.0	19.9	-69.6	72.5	285				
309.2	292.5	293.0	0.375	0.0	1.0	35.1	77.9	-95.5	123.3	309.2	309.2	0.0	0.404	1.0	45.7	32.7	-78.5	85.2	292				
311.6	300.0	300.1	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311.6	311.6	0.0	0.27	1.0	38.2	52.8	-90.6	105.0	300				
314.8	307.5	307.2	0.625	0.0	1.0	42.7	82.5	-82.7	116.8	314.8	314.8	0.0	0.146	0.0	31.3	76.4	-102.0	127.5	306				
318.8	315.0	314.3	0.75	0.0	1.0	47.2	85.8	-75.1	114.0	318.8	318.8	0.0	0.605	0.0	42.1	82.1	-83.8	117.4	314				
323.3	322.5	321.4	0.875	0.0	1.0	52.1	89.8	-66.9	112.0	323.3	323.3	0.0	0.811	0.0	49.7	87.9	-71.0	113.1	321				
328.2	330.0	328.6	1.0	0.0	1.0	57.2	94.3	-58.4	110.9	328.2	328.2	1.0	0.0	0.992	57.2	94.2	-57.4	110.3	328				
334.0	337.5	335.7	1.0	0.0	0.875	55.6	90.3	-43.9	100.4	334.0	334.0	1.0	0.0	0.856	55.4	89.9	-41.4	99.0	335				
341.6	345.0	342.8	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341.6	341.6	1.0	0.0	0.735	54.1	86.5	-26.6	90.6	342				
351.4	352.5	349.9	1.0	0.0	0.625	53.0	83.6	-12.6	84.6	351.4	351.4	1.0	0.0	0.65	53.3	84.5	-15.6	86.0	349				
362.9	360.0	357.0	1.0	0.0	0.5	52.0	81.1	4.1	81.2	362.9	362.9	1.0	0.0	0.618	53.0	83.6	-11.6	84.4	352				
375.2	367.5	364.1	1.0	0.0	0.375	51.3	79.2	21.6	82.1	375.2	375.2	1.0	0.0	0.533	52.3	82.2	-0.1	82.2	359				
386.7	375.0	371.2	1.0	0.0	0.25	50.8	77.9	39.2	87.2	386.7	386.7	1.0	0.0	0.441	51.7	80.7	12.5	81.7	368				
395.4	382.5	378.3	1.0	0.0	0.125	50.6	77.2	54.9	94.8	395.4	395.4	1.0	0.0	0.361	51.3	79.3	23.6	82.8	376				
400.0	390.0	385.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	400.0	400.0	1.0	0.0	0.263	50.9	78.3	37.3	86.7	385				

TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}$ (x=LabCh)	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}	
40	30	25	1.0	0.0 0.0	50.4	76.9	64.5	100.4	40	1.0	0.0	0.0	0.0	0.0	0.0	0.0
40	31	26	1.0	0.016 0.0	50.6	76.5	64.6	100.1	40	1.0	0.0	0.017 0.0	1.0	0.0	0.017 0.0	1.0
40	32	27	1.0	0.033 0.0	50.7	76.1	64.6	99.8	40	1.0	0.0	0.033 0.0	1.0	0.0	0.033 0.0	1.0
40	33	28	1.0	0.05 0.0	50.9	75.7	64.7	99.6	40	1.0	0.0	0.05 0.0	1.0	0.0	0.05 0.0	1.0
40	34	29	1.0	0.066 0.0	51.0	75.3	64.7	99.3	40	1.0	0.0	0.067 0.0	1.0	0.0	0.067 0.0	1.0
40	35	31	1.0	0.083 0.0	51.1	74.9	64.8	99.0	40	1.0	0.0	0.083 0.0	1.0	0.0	0.083 0.0	1.0
41	36	32	1.0	0.1 0.0	51.3	74.5	64.8	98.7	41	1.0	0.0	0.1 0.0	1.0	0.0	0.1 0.0	1.0
41	37	33	1.0	0.116 0.0	51.4	74.1	64.9	98.5	41	1.0	0.0	0.117 0.0	1.0	0.0	0.117 0.0	1.0
41	38	34	1.0	0.133 0.0	51.7	73.4	65.0	98.0	41	1.0	0.0	0.133 0.0	1.0	0.0	0.133 0.0	1.0
41	39	35	1.0	0.15 0.0	52.0	72.4	65.2	97.4	41	1.0	0.0	0.15 0.0	1.0	0.0	0.15 0.0	1.0
42	40	36	1.0	0.166 0.0	52.3	71.4	65.3	96.8	42	1.0	0.0	0.167 0.0	1.0	0.0	0.167 0.0	1.0
42	41	37	1.0	0.183 0.0	52.7	70.5	65.5	96.2	42	1.0	0.0	0.183 0.0	1.0	0.0	0.183 0.0	1.0
43	42	38	1.0	0.2 0.0	53.0	69.5	65.6	95.6	43	1.0	0.0	0.2 0.0	1.0	0.0	0.2 0.0	1.0
43	43	39	1.0	0.216 0.0	53.4	68.6	65.7	95.0	43	1.0	0.0	0.217 0.0	1.0	0.0	0.217 0.0	1.0
44	44	41	1.0	0.233 0.0	53.7	67.6	65.8	94.4	44	1.0	0.0	0.233 0.0	1.0	0.0	0.233 0.0	1.0
44	45	42	1.0	0.25 0.0	54.0	66.7	65.9	93.8	44	1.0	0.0	0.25 0.0	1.0	0.0	0.25 0.0	1.0
45	46	43	1.0	0.266 0.0	54.6	65.1	66.3	93.0	45	1.0	0.0	0.267 0.0	1.0	0.0	0.267 0.0	1.0
46	47	44	1.0	0.283 0.0	55.1	63.6	66.6	92.2	46	1.0	0.0	0.283 0.0	1.0	0.0	0.283 0.0	1.0
47	48	45	1.0	0.3 0.0	55.7	62.1	66.9	91.3	47	1.0	0.0	0.3 0.0	1.0	0.0	0.3 0.0	1.0
47	49	46	1.0	0.316 0.0	56.2	60.6	67.2	90.5	47	1.0	0.0	0.317 0.0	1.0	0.0	0.317 0.0	1.0
48	50	47	1.0	0.333 0.0	56.8	59.1	67.5	89.7	48	1.0	0.0	0.333 0.0	1.0	0.0	0.333 0.0	1.0
49	51	48	1.0	0.35 0.0	57.3	57.6	67.7	88.9	49	1.0	0.0	0.35 0.0	1.0	0.0	0.35 0.0	1.0
50	52	49	1.0	0.366 0.0	57.9	56.2	67.9	88.1	50	1.0	0.0	0.367 0.0	1.0	0.0	0.367 0.0	1.0
51	53	51	1.0	0.383 0.0	58.5	54.5	68.2	87.3	51	1.0	0.0	0.383 0.0	1.0	0.0	0.383 0.0	1.0
52	54	52	1.0	0.4 0.0	59.3	52.6	68.8	86.6	52	1.0	0.0	0.4 0.0	1.0	0.0	0.4 0.0	1.0
53	55	53	1.0	0.416 0.0	60.0	50.7	69.3	85.9	53	1.0	0.0	0.417 0.0	1.0	0.0	0.417 0.0	1.0
54	56	54	1.0	0.433 0.0	60.7	48.8	69.7	85.1	54	1.0	0.0	0.433 0.0	1.0	0.0	0.433 0.0	1.0
56	57	55	1.0	0.45 0.0	61.4	46.9	70.1	84.4	56	1.0	0.0	0.45 0.0	1.0	0.0	0.45 0.0	1.0
57	58	56	1.0	0.466 0.0	62.2	45.1	70.4	83.6	57	1.0	0.0	0.467 0.0	1.0	0.0	0.467 0.0	1.0
58	59	57	1.0	0.483 0.0	62.9	43.2	70.7	82.9	58	1.0	0.0	0.483 0.0	1.0	0.0	0.483 0.0	1.0
59	60	58	1.0	0.5 0.0	63.6	41.3	71.0	82.2	59	1.0	0.0	0.5 0.0	1.0	0.0	0.5 0.0	1.0
61	61	60	1.0	0.516 0.0	64.5	39.3	71.7	81.8	61	1.0	0.0	0.517 0.0	1.0	0.0	0.517 0.0	1.0
62	62	61	1.0	0.533 0.0	65.3	37.2	72.4	81.4	62	1.0	0.0	0.533 0.0	1.0	0.0	0.533 0.0	1.0
64	63	62	1.0	0.55 0.0	66.2	35.1	73.0	81.0	64	1.0	0.0	0.55 0.0	1.0	0.0	0.55 0.0	1.0
65	64	63	1.0	0.566 0.0	67.1	33.0	73.5	80.6	65	1.0	0.0	0.567 0.0	1.0	0.0	0.567 0.0	1.0
67	65	64	1.0	0.583 0.0	67.9	31.0	74.0	80.3	67	1.0	0.0	0.583 0.0	1.0	0.0	0.583 0.0	1.0
68	66	65	1.0	0.6 0.0	68.8	28.9	74.5	79.9	68	1.0	0.0	0.6 0.0	1.0	0.0	0.6 0.0	1.0
70	67	66	1.0	0.616 0.0	69.6	26.8	74.8	79.5	70	1.0	0.0	0.617 0.0	1.0	0.0	0.617 0.0	1.0
71	68	67	1.0	0.633 0.0	70.5	24.7	75.4	79.4	71	1.0	0.0	0.633 0.0	1.0	0.0	0.633 0.0	1.0
73	69	68	1.0	0.65 0.0	71.5	22.7	76.2	79.5	73	1.0	0.0	0.65 0.0	1.0	0.0	0.65 0.0	1.0
75	70	70	1.0	0.666 0.0	72.4	20.6	76.9	79.7	75	1.0	0.0	0.667 0.0	1.0	0.0	0.667 0.0	1.0
76	71	71	1.0	0.683 0.0	73.4	18.5	77.6	79.8	76	1.0	0.0	0.683 0.0	1.0	0.0	0.683 0.0	1.0
78	72	72	1.0	0.7 0.0	74.3	16.3	78.2	79.9	78	1.0	0.0	0.7 0.0	1.0	0.0	0.7 0.0	1.0
79	73	73	1.0	0.716 0.0	75.3	14.2	78.8	80.1	79	1.0	0.0	0.717 0.0	1.0	0.0	0.717 0.0	1.0
81	74	74	1.0	0.733 0.0	76.2	12.0	79.3	80.2	81	1.0	0.0	0.733 0.0	1.0	0.0	0.733 0.0	1.0
82	75	75	1.0	0.75 0.0	77.2	9.8	79.7	80.4	82	1.0	0.0	0.75 0.0	1.0	0.0	0.75 0.0	1.0

1-003530-L0 QE910-70 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 6/29

TUB-test chart QE91; hue code: $H^*_d = G50B_d$ 48 step hue circles; $rgb-LabCh$ *tablesinput: $rgb/cmyk \rightarrow rgb_d$ output: transfer to rgb_d

TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
application for measurement of display output, no separa

Output: sRGB standard device; no separation, D65, page 7/29

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to rgb_d

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}$ (x=LabCh)	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$																			
128	120	127	0.5	1.0	0.0	85.7	-65.2 82.4	105.1	128	0.7	1.0	0.0	87.9	-49.1 85.3	98.4	120	0.5	1.0	0.0	0.529	1.0	0.0	86.0	-62.9 82.9	104.1	127	0.5	1.0	0.0			
128	121	128	0.483	1.0	0.0	85.5	-66.2 82.3	105.6	128	0.68	1.0	0.0	87.7	-50.9 84.9	99.1	121	0.483	1.0	0.0	0.498	1.0	0.0	85.7	-65.3 82.4	105.2	128	0.483	1.0	0.0			
129	122	129	0.466	1.0	0.0	85.4	-67.2 82.1	106.1	129	0.659	1.0	0.0	87.4	-52.8 84.6	99.7	122	0.466	1.0	0.0	0.456	1.0	0.0	85.4	-67.8 82.1	106.5	129	0.466	1.0	0.0			
129	123	130	0.45	1.0	0.0	85.3	-68.2 82.0	106.7	129	0.638	1.0	0.0	87.1	-54.6 84.2	100.4	123	0.45	1.0	0.0	0.414	1.0	0.0	85.1	-70.3 81.7	107.9	130	0.45	1.0	0.0			
130	124	131	0.433	1.0	0.0	85.2	-69.2 81.8	107.2	130	0.615	1.0	0.0	86.9	-56.5 83.9	101.1	124	0.433	1.0	0.0	0.372	1.0	0.0	84.7	-72.9 81.3	109.2	131	0.433	1.0	0.0			
130	125	133	0.416	1.0	0.0	85.0	-70.2 81.7	107.8	130	0.589	1.0	0.0	86.6	-58.4 83.6	102.1	125	0.416	1.0	0.0	0.309	1.0	0.0	84.4	-75.6 80.9	110.8	133	0.416	1.0	0.0			
131	126	134	0.4	1.0	0.0	84.9	-71.3 81.5	108.3	131	0.562	1.0	0.0	86.3	-60.4 83.3	103.0	126	0.4	1.0	0.0	0.244	1.0	0.0	84.1	-78.3 80.5	112.4	134	0.4	1.0	0.0			
131	127	135	0.383	1.0	0.0	84.8	-72.3 81.3	108.8	131	0.536	1.0	0.0	86.1	-62.4 83.0	103.9	127	0.383	1.0	0.0	0.132	1.0	0.0	83.8	-81.2 80.1	114.1	135	0.383	1.0	0.0			
132	128	136	0.366	1.0	0.0	84.7	-73.2 81.2	109.3	132	0.51	1.0	0.0	85.8	-64.4 82.6	104.8	128	0.366	1.0	0.0	0.0	1.0	0.073	83.7	-82.3 78.0	113.5	136	0.366	1.0	0.0			
132	129	137	0.35	1.0	0.0	84.6	-73.9 81.1	109.7	132	0.477	1.0	0.0	85.5	-66.5 82.3	105.8	129	0.35	1.0	0.0	0.0	1.0	0.165	83.7	-81.6 74.2	110.4	137	0.35	1.0	0.0			
132	130	138	0.333	1.0	0.0	84.5	-74.6 81.0	110.1	132	0.442	1.0	0.0	85.3	-68.7 82.0	107.0	130	0.333	1.0	0.0	0.0	1.0	0.227	83.8	-80.8 70.5	107.3	138	0.333	1.0	0.0			
132	131	140	0.316	1.0	0.0	84.4	-75.3 80.9	110.6	132	0.406	1.0	0.0	85.0	-70.9 81.6	108.1	131	0.316	1.0	0.0	0.0	1.0	0.273	83.8	-80.0 67.0	104.5	140	0.316	1.0	0.0			
133	132	141	0.3	1.0	0.0	84.3	-76.0 80.8	111.0	133	0.368	1.0	0.0	84.7	-73.1 81.2	109.3	132	0.3	1.0	0.0	0.0	1.0	0.311	83.9	-79.3 63.7	101.8	141	0.3	1.0	0.0			
133	133	142	0.283	1.0	0.0	84.2	-76.8 80.7	111.4	133	0.314	1.0	0.0	84.5	-75.4 80.9	110.7	133	0.283	1.0	0.0	0.0	1.0	0.349	84.0	-78.4 60.4	99.0	142	0.283	1.0	0.0			
133	134	143	0.266	1.0	0.0	84.2	-77.5 80.6	111.8	133	0.261	1.0	0.0	84.2	-77.7 80.6	112.0	134	0.266	1.0	0.0	0.0	1.0	0.383	84.0	-77.5 57.3	96.4	143	0.266	1.0	0.0			
134	135	144	0.25	1.0	0.0	84.1	-78.2 80.5	112.2	134	0.173	1.0	0.0	83.9	-80.2 80.3	113.5	135	0.25	1.0	0.0	0.0	1.0	0.41	84.1	-76.8 54.3	94.1	144	0.25	1.0	0.0			
134	136	145	0.233	1.0	0.0	84.0	-78.7 80.4	112.5	134	0.004	1.0	0.0	83.6	-82.6 79.9	115.0	136	0.233	1.0	0.0	0.0	1.0	0.437	84.2	-75.9 51.5	91.8	145	0.233	1.0	0.0			
134	137	147	0.216	1.0	0.0	84.0	-79.1 80.4	112.8	134	0.0	1.0	0.125	83.7	-82.1 76.6	112.3	137	0.216	1.0	0.0	0.0	1.0	0.464	84.2	-75.0 48.7	89.5	147	0.216	1.0	0.0			
134	138	148	0.2	1.0	0.0	83.9	-79.5 80.3	113.0	134	0.0	1.0	0.178	83.7	-81.4 73.4	109.7	138	0.2	1.0	0.0	0.0	1.0	0.491	84.3	-74.1 45.9	87.2	148	0.2	1.0	0.0			
134	139	149	0.183	1.0	0.0	83.9	-79.9 80.2	113.3	134	0.0	1.0	0.231	83.8	-80.7 70.3	107.1	139	0.183	1.0	0.0	0.0	1.0	0.513	84.4	-73.3 43.4	85.2	149	0.183	1.0	0.0			
135	140	150	0.166	1.0	0.0	83.8	-80.4 80.2	113.5	135	0.0	1.0	0.271	83.8	-80.1 67.3	104.7	140	0.166	1.0	0.0	0.0	1.0	0.533	84.5	-72.5 41.0	83.4	150	0.166	1.0	0.0			
135	141	151	0.15	1.0	0.0	83.8	-80.8 80.1	113.8	135	0.0	1.0	0.303	83.9	-79.4 64.4	102.3	141	0.15	1.0	0.0	0.0	1.0	0.553	84.5	-71.7 38.6	81.6	151	0.15	1.0	0.0			
135	142	152	0.133	1.0	0.0	83.7	-81.2 80.1	114.1	135	0.0	1.0	0.335	83.9	-78.7 61.6	100.0	142	0.133	1.0	0.0	0.0	1.0	0.573	84.6	-70.9 36.3	79.8	152	0.133	1.0	0.0			
135	143	154	0.116	1.0	0.0	83.7	-81.5 80.0	114.2	135	0.0	1.0	0.368	84.0	-77.9 58.8	97.7	143	0.116	1.0	0.0	0.0	1.0	0.593	84.7	-70.0 34.1	77.9	154	0.116	1.0	0.0			
135	144	155	0.1	1.0	0.0	83.7	-81.7 80.0	114.4	135	0.0	1.0	0.393	84.1	-77.3 56.2	95.6	144	0.1	1.0	0.0	0.0	1.0	0.614	84.7	-69.0 31.9	76.1	155	0.1	1.0	0.0			
135	145	156	0.083	1.0	0.0	83.7	-81.9 80.0	114.5	135	0.0	1.0	0.416	84.1	-76.6 53.7	93.6	145	0.083	1.0	0.0	0.0	1.0	0.631	84.8	-68.2 29.8	74.5	156	0.083	1.0	0.0			
135	146	157	0.066	1.0	0.0	83.7	-82.0 79.9	114.6	135	0.0	1.0	0.439	84.2	-75.9 51.3	91.7	146	0.066	1.0	0.0	0.0	1.0	0.646	84.9	-67.5 27.9	73.2	157	0.066	1.0	0.0			
135	147	158	0.049	1.0	0.0	83.6	-82.2 79.9	114.7	135	0.0	1.0	0.462	84.2	-75.1 48.8	89.7	147	0.049	1.0	0.0	0.0	1.0	0.661	85.0	-66.9 26.1	71.9	158	0.049	1.0	0.0			
135	148	159	0.033	1.0	0.0	83.6	-82.4 79.9	114.8	135	0.0	1.0	0.485	84.3	-74.3 46.5	87.7	148	0.033	1.0	0.0	0.0	1.0	0.676	85.0	-66.2 24.3	70.6	159	0.033	1.0	0.0			
135	149	161	0.016	1.0	0.0	83.6	-82.6 79.9	114.9	135	0.0	1.0	0.506	84.4	-73.5 44.2	85.9	149	0.016	1.0	0.0	0.0	1.0	0.691	85.1	-65.4 22.5	69.2	161	0.016	1.0	0.0			
136	150	162	0.0	1.0	0.0	83.6	-82.7 79.8	115.0	136	G_d	0.0	1.0	0.523	84.4	-72.9 42.1	84.3	150	G_s	0.0	1.0	0.0	0.0	1.0	0.706	85.2	-64.6 20.7	67.9	162	G_e	0.0	1.0	0.0
136	151	163	0.0	1.0	0.016	83.6	-82.7 79.4	114.6	136	0.0	1.0	0.541	84.5	-72.3 40.1	82.7	151	0.0	1.0	0.017	0.0	1.0	0.718	85.2	-63.9 19.4	66.9	163	0.0	1.0	0.017			
136	152	164	0.0	1.0	0.033	83.6	-82.6 79.0	114.3	136	0.0	1.0	0.558	84.5	-71.6 38.1	81.2	152	0.0	1.0	0.033	0.0	1.0	0.73	85.3	-63.2 18.1	65.9	164	0.0	1.0	0.033			
136	153	164	0.0	1.0	0.05	83.6	-82.5 78.5	113.9	136	0.0	1.0	0.575	84.6	-70.8 36.1	79.6	153	0.0	1.0	0.05	0.0	1.0	0.741	85.3	-62.5 16.8	64.8	164	0.0	1.0	0.05			
136	154	165	0.0	1.0	0.066	83.6	-82.4 78.1	113.5	136	0.0	1.0	0.592	84.7	-70.0 34.2	78.0	154	0.0	1.0	0.067	0.0	1.0	0.752	85.4	-61.9 15.6	63.9	165	0.0	1.0	0.067			
136	155	166	0.0	1.0	0.083	83.6	-82.3 77.6	113.2	136	0.0	1.0	0.61	84.7	-69.2 32.3	76.5	155	0.0	1.0	0.083	0.0	1.0	0.761	85.4	-61.5 14.5	63.2	166	0.0	1.0	0.083			
136	156	167	0.0	1.0	0.1	83.6	-82.2 77.2	112.8	136	0.0	1.0	0.626	84.8	-68.4 30.5	74.9	156	0.0	1.0	0.1	0.0	1.0	0.77	85.5	-61.1 13.3	62.6	167	0.0	1.0	0.1			
136	157	168	0.0	1.0	0.116	83.6	-82.1 76.8	112.5	136	0.0	1.0	0.639	84.9	-67.8 28.8	73.8	157	0.0	1.0	0.117	0.0	1.0	0.778	85.5	-60.6 12.2	61.9	168	0.0	1.0	0.117			
137	158	169	0.0	1.0	0.133	83.6	-82.0 76.0	111.9	137	0.0	1.0	0.652	84.9	-67.3 27.2	72.7	158	0.0	1.0	0.133	0.0	1.0	0.787	85.6	-60.2 11.1	61.3	169	0.0	1.0	0.133			
137	159	170	0.0	1.0	0.15	83.7	-81.8 75.0	111.0	137	0.0	1.0	0.665	85.0	-66.7 25.6	71.6	159	0.0	1.0	0.15	0.0	1.0	0.795	85.6	-59.7 10.1	60.6	170	0.0	1.0	0.15			
137	160	171	0.0	1.0	0.166	83.7	-81.6 74.0	110.2	137	0.0	1.0	0.678	85.0	-66.1 24.1	70.4	160	0.0	1.0	0.167	0.0	1.0	0.804	85.7	-59.2 9.0	60.0	171	0.0	1.0	0.167			
138	161	172	0.0	1.0	0.183	83.7	-81.4 73.0	109.4	138	0.0	1.0	0.691	85.1	-65.4 22.6	69.3	161	0.0	1.0	0.183	0.0	1.0	0.813	85.									

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^* dd361M	LAB* ddx361Mi (x=LabCh)	rgb^* ds361Mi	LAB* dsx361Mi (x=LabCh)	rgb^* dd361Mi	LAB* dex361Mi (x=LabCh)	rgb^* dd361Mi	LAB* dex361Mi (x=LabCh)	rgb^* dd361Mi	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
139	165	175	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139	0.0	1.0	0.25	83.8
139	166	176	0.0	1.0	0.266	83.8	-80.2	67.6	104.9	139	0.0	1.0	0.267	83.8
140	167	177	0.0	1.0	0.283	83.8	-79.9	66.1	103.7	140	0.0	1.0	0.283	83.8
140	168	178	0.0	1.0	0.3	83.8	-79.6	64.6	102.5	140	0.0	1.0	0.3	83.8
141	169	179	0.0	1.0	0.316	83.9	-79.2	63.1	101.3	141	0.0	1.0	0.317	83.9
141	170	180	0.0	1.0	0.333	83.9	-78.8	61.7	100.1	141	0.0	1.0	0.333	83.9
142	171	181	0.0	1.0	0.35	83.9	-78.4	60.2	98.9	142	0.0	1.0	0.35	83.9
142	172	182	0.0	1.0	0.366	84.0	-78.0	58.8	97.7	142	0.0	1.0	0.367	84.0
143	173	183	0.0	1.0	0.383	84.0	-77.6	57.2	96.4	143	0.0	1.0	0.383	84.0
144	174	184	0.0	1.0	0.4	84.0	-77.1	55.4	94.9	144	0.0	1.0	0.4	84.0
145	175	185	0.0	1.0	0.416	84.1	-76.6	53.6	93.5	145	0.0	1.0	0.417	84.1
145	176	185	0.0	1.0	0.433	84.1	-76.1	51.8	92.1	145	0.0	1.0	0.433	84.1
146	177	186	0.0	1.0	0.45	84.2	-75.6	50.0	90.6	146	0.0	1.0	0.45	84.2
147	178	187	0.0	1.0	0.466	84.2	-75.0	48.3	89.2	147	0.0	1.0	0.467	84.2
147	179	188	0.0	1.0	0.483	84.3	-74.4	46.6	87.8	147	0.0	1.0	0.483	84.3
148	180	189	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148	0.0	1.0	0.5	84.3
149	181	190	0.0	1.0	0.516	84.4	-73.2	42.9	84.8	149	0.0	1.0	0.517	84.4
150	182	191	0.0	1.0	0.533	84.4	-72.6	40.9	83.3	150	0.0	1.0	0.533	84.4
151	183	192	0.0	1.0	0.55	84.5	-71.9	39.0	81.8	151	0.0	1.0	0.55	84.5
152	184	193	0.0	1.0	0.566	84.5	-71.2	37.0	80.3	152	0.0	1.0	0.567	84.5
153	185	194	0.0	1.0	0.583	84.6	-70.5	35.2	78.8	153	0.0	1.0	0.583	84.6
154	186	195	0.0	1.0	0.6	84.6	-69.7	33.3	77.3	154	0.0	1.0	0.6	84.6
155	187	195	0.0	1.0	0.616	84.7	-68.9	31.5	75.8	155	0.0	1.0	0.617	84.7
156	188	196	0.0	1.0	0.633	84.8	-68.1	29.5	74.3	156	0.0	1.0	0.633	84.8
157	189	197	0.0	1.0	0.65	84.8	-67.4	27.4	72.8	157	0.0	1.0	0.65	84.8
159	190	198	0.0	1.0	0.666	84.9	-66.7	25.4	71.3	159	0.0	1.0	0.667	84.9
160	191	199	0.0	1.0	0.683	85.0	-65.8	23.4	69.9	160	0.0	1.0	0.683	85.0
161	192	200	0.0	1.0	0.7	85.1	-65.0	21.4	68.4	161	0.0	1.0	0.7	85.1
163	193	201	0.0	1.0	0.716	85.2	-64.0	19.5	67.0	163	0.0	1.0	0.717	85.2
164	194	202	0.0	1.0	0.733	85.2	-63.1	17.6	65.5	164	0.0	1.0	0.733	85.2
165	195	203	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165	0.0	1.0	0.75	85.3
167	196	204	0.0	1.0	0.766	85.4	-61.2	13.7	62.8	167	0.0	1.0	0.767	85.4
169	197	205	0.0	1.0	0.783	85.5	-60.4	11.5	61.5	169	0.0	1.0	0.783	85.5
170	198	206	0.0	1.0	0.8	85.6	-59.5	9.5	60.2	170	0.0	1.0	0.8	85.6
172	199	206	0.0	1.0	0.816	85.7	-58.5	7.5	59.0	172	0.0	1.0	0.817	85.7
174	200	207	0.0	1.0	0.833	85.8	-57.4	5.5	57.7	174	0.0	1.0	0.833	85.8
176	201	208	0.0	1.0	0.85	85.9	-56.3	3.7	56.4	176	0.0	1.0	0.85	85.9
177	202	209	0.0	1.0	0.866	86.0	-55.1	1.9	55.2	177	0.0	1.0	0.867	86.0
180	203	210	0.0	1.0	0.883	86.1	-54.1	0.0	54.1	180	0.0	1.0	0.883	86.1
182	204	211	0.0	1.0	0.9	86.2	-53.2	-2.1	53.2	182	0.0	1.0	0.9	86.2
184	205	212	0.0	1.0	0.916	86.3	-52.2	-4.2	52.4	184	0.0	1.0	0.917	86.3
187	206	213	0.0	1.0	0.933	86.4	-51.1	-6.3	51.5	187	0.0	1.0	0.933	86.4
189	207	214	0.0	1.0	0.95	86.5	-50.0	-8.2	50.7	189	0.0	1.0	0.95	86.5
191	208	215	0.0	1.0	0.966	86.6	-48.8	-10.1	49.8	191	0.0	1.0	0.967	86.6
194	209	216	0.0	1.0	0.983	86.7	-47.5	-11.8	48.9	194	0.0	1.0	0.983	86.7
196	210	216	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196	0.0	1.0	1.0	86.8

1-003830-L0 QE910-70 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 9/29

TUB-test chart QE91; hue code: $H^*_d = G50B_d$ 48 step hue circles; $rgb-LabCh$ *tablesinput: $rgb/cmyk \rightarrow rgb_d$ output: transfer to rgb_d

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}			$LAB^*_{ddx361Mi}(x=LabCh)$				C_d	$rgb^*_{ds361Mi}$			$LAB^*_{dsx361Mi}(x=LabCh)$				$210C_s$	$rgb^*_{dd361Mi}$			$rgb^*_{de361Mi}$			$LAB^*_{dex361Mi}(x=LabCh)$				$216C_e$	$rgb^*_{dd361Mi}$			rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
196	210	216	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196	0.0	0.927	1.0	81.7	-38.6	-22.2	44.7	210	0.0	1.0	1.0	0.0	0.89	1.0	79.1	-34.2	-25.7	42.9	216	0.0	1.0	1.0			
199	211	217	0.0	0.983	1.0	85.6	-44.6	-15.8	47.3	199	0.0	0.922	1.0	81.3	-38.0	-22.8	44.4	211	0.0	0.983	1.0	0.0	0.885	1.0	78.7	-33.6	-26.1	42.7	217	0.0	0.983	1.0			
202	212	218	0.0	0.966	1.0	84.5	-42.9	-17.9	46.5	202	0.0	0.917	1.0	81.0	-37.3	-23.3	44.2	212	0.0	0.967	1.0	0.0	0.881	1.0	78.4	-33.0	-26.5	42.4	218	0.0	0.967	1.0			
205	213	219	0.0	0.95	1.0	83.3	-41.1	-19.8	45.7	205	0.0	0.911	1.0	80.6	-36.7	-23.8	43.9	213	0.0	0.95	1.0	0.0	0.876	1.0	78.0	-32.3	-26.9	42.2	219	0.0	0.95	1.0			
208	214	220	0.0	0.933	1.0	82.1	-39.3	-21.7	44.9	208	0.0	0.906	1.0	80.2	-36.1	-24.3	43.6	214	0.0	0.933	1.0	0.0	0.871	1.0	77.7	-31.9	-27.4	42.2	220	0.0	0.933	1.0			
212	215	221	0.0	0.916	1.0	80.9	-37.4	-23.4	44.1	212	0.0	0.901	1.0	79.8	-35.4	-24.8	43.4	215	0.0	0.917	1.0	0.0	0.867	1.0	77.4	-31.5	-27.9	42.3	221	0.0	0.917	1.0			
215	216	222	0.0	0.9	1.0	79.7	-35.4	-24.9	43.3	215	0.0	0.895	1.0	79.5	-34.8	-25.3	43.1	216	0.0	0.9	1.0	0.0	0.863	1.0	77.2	-31.1	-28.5	42.3	222	0.0	0.9	1.0			
218	217	223	0.0	0.883	1.0	78.5	-33.4	-26.3	42.5	218	0.0	0.89	1.0	79.1	-34.1	-25.7	42.9	217	0.0	0.883	1.0	0.0	0.859	1.0	76.9	-30.7	-29.0	42.4	223	0.0	0.883	1.0			
221	218	224	0.0	0.866	1.0	77.4	-31.5	-28.1	42.2	221	0.0	0.885	1.0	78.7	-33.5	-26.1	42.6	218	0.0	0.867	1.0	0.0	0.855	1.0	76.6	-30.3	-29.6	42.5	224	0.0	0.867	1.0			
225	219	225	0.0	0.85	1.0	76.2	-29.9	-30.2	42.5	225	0.0	0.879	1.0	78.3	-32.8	-26.6	42.4	219	0.0	0.85	1.0	0.0	0.851	1.0	76.3	-29.9	-30.1	42.6	225	0.0	0.85	1.0			
228	220	226	0.0	0.833	1.0	75.0	-28.1	-32.3	42.8	228	0.0	0.874	1.0	77.9	-32.2	-27.0	42.2	220	0.0	0.833	1.0	0.0	0.846	1.0	76.0	-29.4	-30.6	42.6	226	0.0	0.833	1.0			
232	221	227	0.0	0.816	1.0	73.8	-26.1	-34.2	43.1	232	0.0	0.87	1.0	77.6	-31.8	-27.6	42.2	221	0.0	0.817	1.0	0.0	0.842	1.0	75.7	-29.0	-31.1	42.7	227	0.0	0.817	1.0			
236	222	227	0.0	0.8	1.0	72.6	-24.0	-36.0	43.3	236	0.0	0.865	1.0	77.3	-31.3	-28.2	42.3	222	0.0	0.8	1.0	0.0	0.838	1.0	75.4	-28.5	-31.6	42.8	227	0.0	0.8	1.0			
239	223	228	0.0	0.783	1.0	71.4	-21.8	-37.7	43.6	239	0.0	0.861	1.0	77.0	-30.9	-28.8	42.4	223	0.0	0.783	1.0	0.0	0.834	1.0	75.1	-28.1	-32.1	42.8	228	0.0	0.783	1.0			
243	224	229	0.0	0.766	1.0	70.2	-19.5	-39.3	43.9	243	0.0	0.856	1.0	76.7	-30.4	-29.4	42.5	224	0.0	0.767	1.0	0.0	0.83	1.0	74.8	-27.6	-32.6	42.9	229	0.0	0.767	1.0			
247	225	230	0.0	0.75	1.0	69.1	-17.0	-40.7	44.1	247	0.0	0.851	1.0	76.3	-30.0	-30.0	42.5	225	0.0	0.75	1.0	0.0	0.826	1.0	74.5	-27.1	-33.1	43.0	230	0.0	0.75	1.0			
250	226	231	0.0	0.733	1.0	67.9	-15.3	-42.9	45.5	250	0.0	0.847	1.0	76.0	-29.5	-30.6	42.6	226	0.0	0.733	1.0	0.0	0.821	1.0	74.2	-26.6	-33.6	43.0	231	0.0	0.733	1.0			
253	227	232	0.0	0.716	1.0	66.7	-13.5	-44.9	46.9	253	0.0	0.842	1.0	75.7	-29.0	-31.1	42.7	227	0.0	0.717	1.0	0.0	0.817	1.0	73.9	-26.1	-34.1	43.1	232	0.0	0.717	1.0			
256	228	233	0.0	0.7	1.0	65.5	-11.4	-46.9	48.3	256	0.0	0.838	1.0	75.4	-28.5	-31.7	42.8	228	0.0	0.7	1.0	0.0	0.813	1.0	73.6	-25.6	-34.6	43.2	233	0.0	0.7	1.0			
259	229	234	0.0	0.683	1.0	64.4	-9.2	-48.8	49.7	259	0.0	0.833	1.0	75.0	-28.0	-32.2	42.8	229	0.0	0.683	1.0	0.0	0.809	1.0	73.3	-25.1	-35.0	43.2	234	0.0	0.683	1.0			
262	230	235	0.0	0.666	1.0	63.2	-6.8	-50.6	51.1	262	0.0	0.829	1.0	74.7	-27.5	-32.8	42.9	230	0.0	0.667	1.0	0.0	0.805	1.0	73.0	-24.6	-35.5	43.3	235	0.0	0.667	1.0			
265	231	236	0.0	0.65	1.0	62.0	-4.2	-52.3	52.5	265	0.0	0.824	1.0	74.4	-26.9	-33.3	43.0	231	0.0	0.65	1.0	0.0	0.801	1.0	72.7	-24.1	-35.9	43.4	236	0.0	0.65	1.0			
268	232	237	0.0	0.633	1.0	60.9	-1.5	-53.9	53.9	268	0.0	0.82	1.0	74.1	-26.4	-33.8	43.1	232	0.0	0.633	1.0	0.0	0.797	1.0	72.4	-23.5	-36.3	43.4	237	0.0	0.633	1.0			
270	233	237	0.0	0.616	1.0	59.7	0.8	-55.6	55.7	270	0.0	0.815	1.0	73.7	-25.9	-34.3	43.1	233	0.0	0.617	1.0	0.0	0.792	1.0	72.1	-23.0	-36.8	43.5	237	0.0	0.617	1.0			
272	234	238	0.0	0.6	1.0	58.6	2.9	-57.7	57.8	272	0.0	0.81	1.0	73.4	-25.3	-34.9	43.2	234	0.0	0.6	1.0	0.0	0.788	1.0	71.8	-22.4	-37.2	43.6	238	0.0	0.6	1.0			
274	235	239	0.0	0.583	1.0	57.4	5.1	-59.7	59.9	274	0.0	0.806	1.0	73.1	-24.7	-35.4	43.3	235	0.0	0.583	1.0	0.0	0.784	1.0	71.5	-21.8	-37.6	43.6	239	0.0	0.583	1.0			
276	236	240	0.0	0.566	1.0	56.3	7.4	-61.6	62.1	276	0.0	0.801	1.0	72.8	-24.1	-35.8	43.4	236	0.0	0.567	1.0	0.0	0.78	1.0	71.2	-21.3	-38.0	43.7	240	0.0	0.567	1.0			
278	237	241	0.0	0.55	1.0	55.2	10.0	-63.5	64.2	278	0.0	0.797	1.0	72.4	-23.6	-36.3	43.4	237	0.0	0.55	1.0	0.0	0.776	1.0	70.9	-20.7	-38.4	43.8	241	0.0	0.55	1.0			
280	238	242	0.0	0.533	1.0	54.0	12.6	-65.2	66.4	280	0.0	0.792	1.0	72.1	-23.0	-36.8	43.5	238	0.0	0.533	1.0	0.0	0.772	1.0	70.6	-20.1	-38.8	43.8	242	0.0	0.533	1.0			
283	239	243	0.0	0.516	1.0	52.9	15.4	-66.8	68.5	283	0.0	0.788	1.0	71.8	-22.3	-37.2	43.6	239	0.0	0.517	1.0	0.0	0.767	1.0	70.3	-19.5	-39.2	43.9	243	0.0	0.517	1.0			
285	240	244	0.0	0.5	1.0	51.7	18.3	-68.3	70.7	285	0.0	0.783	1.0	71.5	-21.7	-37.7	43.6	240	0.0	0.5	1.0	0.0	0.763	1.0	70.1	-18.9	-39.5	44.0	244	0.0	0.5	1.0			
286	241	245	0.0	0.483	1.0	50.7	20.6	-70.2	73.2	286	0.0	0.779	1.0	71.1	-21.1	-38.1	43.7	241	0.0	0.483	1.0	0.0	0.759	1.0	69.8	-18.3	-39.9	44.0	245	0.0	0.483	1.0			
287	242	246	0.0	0.466	1.0	49.6	22.9	-72.1	75.7	287	0.0	0.774	1.0	70.8	-20.5	-38.6	43.8	242	0.0	0.467	1.0	0.0	0.755	1.0	69.5	-17.7	-40.2	44.1	246	0.0	0.467	1.0			
288	243	247	0.0	0.45	1.0	48.6	25.4	-74.0	78																										

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^* dd361M	LAB^* ddx361Mi (x=LabCh)	rgb^* ds361Mi	LAB^* dsx361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* de361Mi	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* ds361Mi	rgb^* de361Mi
301	255	258	0.0 0.25 1.0	37.1 55.9 -92.3 107.9 301	0.0 0.707 1.0	66.1 -12.3 -46.0 47.8 255	0.0 0.25 1.0	0.0 0.69 1.0	64.9 -10.1 -48.0 49.2 258	0.0 0.25 1.0		
301	256	258	0.0 0.233 1.0	36.5 57.6 -93.4 109.7 301	0.0 0.702 1.0	65.7 -11.6 -46.7 48.2 256	0.0 0.233 1.0	0.0 0.685 1.0	64.6 -9.4 -48.6 49.6 258	0.0 0.233 1.0		
302	257	259	0.0 0.216 1.0	35.9 59.4 -94.5 111.6 302	0.0 0.696 1.0	65.3 -10.9 -47.3 48.7 257	0.0 0.217 1.0	0.0 0.68 1.0	64.2 -8.7 -49.1 50.0 259	0.0 0.217 1.0		
302	258	260	0.0 0.2 1.0	35.2 61.2 -95.5 113.5 302	0.0 0.691 1.0	64.9 -10.1 -48.0 49.1 258	0.0 0.2 1.0	0.0 0.675 1.0	63.8 -8.0 -49.7 50.4 260	0.0 0.2 1.0		
303	259	261	0.0 0.183 1.0	34.6 63.0 -96.6 115.3 303	0.0 0.685 1.0	64.5 -9.4 -48.6 49.6 259	0.0 0.183 1.0	0.0 0.67 1.0	63.5 -7.2 -50.2 50.9 261	0.0 0.183 1.0		
303	260	262	0.0 0.166 1.0	34.0 64.8 -97.6 117.2 303	0.0 0.679 1.0	64.2 -8.6 -49.2 50.1 260	0.0 0.167 1.0	0.0 0.665 1.0	63.1 -6.5 -50.8 51.3 262	0.0 0.167 1.0		
304	261	263	0.0 0.15 1.0	33.4 66.7 -98.6 119.1 304	0.0 0.674 1.0	63.8 -7.8 -49.8 50.5 261	0.0 0.15 1.0	0.0 0.66 1.0	62.8 -5.7 -51.3 51.7 263	0.0 0.15 1.0		
304	262	264	0.0 0.133 1.0	32.8 68.6 -99.6 120.9 304	0.0 0.668 1.0	63.4 -7.0 -50.4 51.0 262	0.0 0.133 1.0	0.0 0.655 1.0	62.4 -5.0 -51.8 52.1 264	0.0 0.133 1.0		
304	263	265	0.0 0.116 1.0	32.3 70.0 -100.3 122.3 304	0.0 0.663 1.0	63.0 -6.2 -51.0 51.5 263	0.0 0.117 1.0	0.0 0.65 1.0	62.1 -4.2 -52.3 52.5 265	0.0 0.117 1.0		
305	264	266	0.0 0.1 1.0	32.0 70.8 -100.8 122.3 305	0.0 0.657 1.0	62.6 -5.3 -51.5 51.9 264	0.0 0.1 1.0	0.0 0.645 1.0	61.7 -3.4 -52.8 53.0 266	0.0 0.1 1.0		
305	265	267	0.0 0.083 1.0	31.7 71.7 -101.2 124.1 305	0.0 0.652 1.0	62.2 -4.5 -52.1 52.4 265	0.0 0.083 1.0	0.0 0.64 1.0	61.4 -2.5 -53.2 53.4 267	0.0 0.083 1.0		
305	266	268	0.0 0.066 1.0	31.5 72.5 -101.7 124.9 305	0.0 0.646 1.0	61.8 -3.6 -52.6 52.8 266	0.0 0.067 1.0	0.0 0.635 1.0	61.0 -1.7 -53.7 53.8 268	0.0 0.067 1.0		
305	267	269	0.0 0.049 1.0	31.2 73.4 -102.2 125.8 305	0.0 0.641 1.0	61.4 -2.7 -53.1 53.3 267	0.0 0.05 1.0	0.0 0.63 1.0	60.6 -0.8 -54.1 54.2 269	0.0 0.05 1.0		
305	268	269	0.0 0.033 1.0	30.9 74.3 -102.6 126.7 305	0.0 0.635 1.0	61.0 -1.8 -53.6 53.8 268	0.0 0.033 1.0	0.0 0.624 1.0	60.3 0.0 -54.6 54.7 269	0.0 0.033 1.0		
306	269	270	0.0 0.016 1.0	30.6 75.1 -103.1 127.6 306	0.0 0.63 1.0	60.6 -0.8 -54.1 54.2 269	0.0 0.017 1.0	0.0 0.617 1.0	59.8 0.8 -55.6 55.7 270	0.0 0.017 1.0		
306	270	271	0.0 0.0 1.0	30.3 76.0 -103.5 128.5 306	B_d 0.0 0.624 1.0	60.2 0.0 -54.7 54.8 270	B_s 0.0 0.0 1.0	0.0 0.609 1.0	59.3 1.7 -56.5 56.6 271	B_e 0.0 0.0 1.0		
306	271	272	0.016 0.0 1.0	30.4 76.0 -103.4 128.4 306	0.0 0.615 1.0	59.7 1.0 -55.7 55.9 271	0.0 0.017 0.0 1.0	0.0 0.602 1.0	58.7 2.7 -57.5 57.6 272	0.0 0.017 0.0 1.0		
306	272	273	0.033 0.0 1.0	30.5 76.1 -103.3 128.3 306	0.0 0.607 1.0	59.1 2.0 -56.8 56.9 272	0.0 0.033 0.0 1.0	0.0 0.594 1.0	58.2 3.7 -58.4 58.6 273	0.0 0.033 0.0 1.0		
306	273	274	0.05 0.0 1.0	30.6 76.1 -103.1 128.2 306	0.0 0.599 1.0	58.5 3.0 -57.8 58.0 273	0.0 0.05 0.0 1.0	0.0 0.586 1.0	57.7 4.8 -59.4 59.7 274	0.0 0.05 0.0 1.0		
306	274	275	0.066 0.0 1.0	30.7 76.1 -103.0 128.1 306	0.0 0.591 1.0	58.0 4.1 -58.8 59.0 274	0.0 0.067 0.0 1.0	0.0 0.578 1.0	57.1 5.8 -60.3 60.7 275	0.0 0.067 0.0 1.0		
306	275	276	0.083 0.0 1.0	30.8 76.2 -102.8 128.0 306	0.0 0.583 1.0	57.4 5.2 -59.8 60.1 275	0.0 0.083 0.0 1.0	0.0 0.57 1.0	56.6 7.0 -61.2 61.7 276	0.0 0.083 0.0 1.0		
306	276	277	0.1 0.0 1.0	30.9 76.2 -102.7 127.9 306	0.0 0.574 1.0	56.9 6.4 -60.7 61.2 276	0.1 0.0 1.0	0.0 0.563 1.0	56.1 8.1 -62.0 62.7 277	0.1 0.0 1.0		
306	277	278	0.116 0.0 1.0	30.9 76.2 -102.5 127.8 306	0.0 0.566 1.0	56.3 7.6 -61.7 62.2 277	0.117 0.0 1.0	0.0 0.555 1.0	55.5 9.3 -62.9 63.7 278	0.117 0.0 1.0		
306	278	279	0.133 0.0 1.0	31.1 76.3 -102.3 127.6 306	0.0 0.558 1.0	55.7 8.8 -62.6 63.3 278	0.133 0.0 1.0	0.0 0.547 1.0	55.0 10.5 -63.7 64.7 279	0.133 0.0 1.0		
306	279	280	0.15 0.0 1.0	31.3 76.3 -101.9 127.4 306	0.0 0.55 1.0	55.2 10.1 -63.5 64.3 279	0.15 0.0 1.0	0.0 0.539 1.0	54.5 11.7 -64.5 65.7 280	0.15 0.0 1.0		
306	280	281	0.166 0.0 1.0	31.5 76.4 -101.6 127.1 306	0.0 0.541 1.0	54.6 11.4 -64.3 65.4 280	0.167 0.0 1.0	0.0 0.531 1.0	53.9 13.0 -65.3 66.7 281	0.167 0.0 1.0		
307	281	282	0.183 0.0 1.0	31.7 76.5 -101.2 126.9 307	0.0 0.533 1.0	54.1 12.7 -65.1 66.5 281	0.183 0.0 1.0	0.0 0.524 1.0	53.4 14.3 -66.1 67.7 282	0.183 0.0 1.0		
307	282	283	0.2 0.0 1.0	31.9 76.6 -100.9 126.7 307	0.0 0.525 1.0	53.5 14.0 -66.0 67.5 282	0.2 0.0 1.0	0.0 0.516 1.0	52.9 15.6 -66.8 68.7 283	0.2 0.0 1.0		
307	283	284	0.216 0.0 1.0	32.1 76.6 -100.5 126.4 307	0.0 0.517 1.0	52.9 15.4 -66.7 68.6 283	0.217 0.0 1.0	0.0 0.508 1.0	52.3 16.9 -67.5 69.7 284	0.217 0.0 1.0		
307	284	285	0.233 0.0 1.0	32.3 76.7 -100.1 126.2 307	0.0 0.508 1.0	52.4 16.9 -67.5 69.7 284	0.233 0.0 1.0	0.0 0.5 1.0	51.8 18.3 -68.2 70.7 285	0.233 0.0 1.0		
307	285	285	0.25 0.0 1.0	32.6 76.8 -99.8 125.9 307	0.0 0.5 1.0	51.8 18.3 -68.2 70.7 285	0.25 0.0 1.0	0.0 0.488 1.0	51.0 19.9 -69.6 72.5 285	0.25 0.0 1.0		
307	286	286	0.266 0.0 1.0	32.9 77.0 -99.2 125.6 307	0.0 0.488 1.0	51.0 20.0 -69.7 72.6 286	0.267 0.0 1.0	0.0 0.476 1.0	50.3 21.6 -71.0 74.3 286	0.267 0.0 1.0		
308	287	287	0.283 0.0 1.0	33.2 77.1 -98.6 125.2 308	0.0 0.475 1.0	50.2 21.8 -71.2 74.5 287	0.283 0.0 1.0	0.0 0.464 1.0	49.5 23.3 -72.4 76.1 287	0.283 0.0 1.0		
308	288	288	0.3 0.0 1.0	33.6 77.3 -98.1 124.9 308	0.0 0.462 1.0	49.4 23.6 -72.6 76.4 288	0.3 0.0 1.0	0.0 0.452 1.0	48.8 25.1 -73.7 77.9 288	0.3 0.0 1.0		
308	289	289	0.316 0.0 1.0	33.9 77.4 -97.5 124.5 308	0.0 0.45 1.0	48.6 25.5 -74.0 78.3 289	0.317 0.0 1.0	0.0 0.44 1.0	48.0 26.9 -75.0 79.8 289	0.317 0.0 1.0		
308	290	290	0.333 0.0 1.0	34.3 77.6 -96.9 124.1 308	0.0 0.437 1.0	47.8 27.4 -75.3 80.2 290	0.333 0.0 1.0	0.0 0.428 1.0	47.2 28.8 -76.2 81.6 290	0.333 0.0 1.0		
308	291	291	0.35 0.0 1.0	34.6 77.7 -96.3 123.8 308	0.0 0.424 1.0	47.0 29.4 -76.6 82.1 291	0.35 0.0 1.0	0.0 0.416 1.0	46.5 30.7 -77.4 83.4 291	0.35 0.0 1.0		
309	292	292	0.366 0.0 1.0	34.9 77.9 -95.7 123.4 309	0.0 0.412 1.0	46.2 31.5 -77.8 84.1 292	0.367 0.0 1.0	0.0 0.404 1.0	45.7 32.7 -78.5 85.2 292	0.367 0.0 1.0		
309	293	293	0.383 0.0 1.0	35.3 78.1 -95.1 123.0 309	0.0 0.399 1.0	45.4 33.6 -79.0 86.0 293	0.383 0.0 1.0	0.0 0.392 1.0	44.9 34.7 -79.7 87.0 293	0.383 0.0 1.0		
309	294	294	0.4 0.0 1.0	35.8 78.3 -94.3 122.6 309	0.0 0.386 1.0	44.6 35.7 -80.2 87.9 294	0.4 0.0 1.0	0.0 0.38 1.0	44.2 36.8 -80.7 88.8 294	0.4 0.0 1.0		
310	295	295	0.416 0.0 1.0	36.3 78.6 -93.5 122.2 310	0.0 0.373 1.0	43.7 38.0 -81.4 89.9 295	0.417 0.0 1.0	0.0 0.364 1.0	43.3 39.2 -82.2 91.2 295	0.417 0.0 1.0		
310	296	296	0.433 0.0 1.0	36.7 78.9 -92.7 121.8 310	0.0 0.353 1.0	42.7 40.7 -83.3 92.8 296	0.433 0.0 1.0	0.0 0.345 1.0	42.3 41.7 -84.0 93.9 296	0.433 0.0 1.0		
310	297	297	0.45 0.0 1.0	37.2 79.1 -92.0 121.3 310	0.0 0.333 1.0	41.6 43.5 -85.2 95.7 297	0.45 0.0 1.0	0.0 0.327 1.0	41.3 44.4 -85.8 96.7 297	0.45 0.0 1.0		
311	298	298	0.466 0.0 1.0	37.6 79.3 -91.2 120.9 311	0.0 0.313 1.0	40.5 46.3 -87.0 98.6 298	0.467 0.0 1.0	0.0 0.308 1.0	40.3 47.1 -87.5 99.4 298	0.467 0.0 1.0		
311	299	299	0.483 0.0 1.0	38.1 79.6 -90.4 120.5 311	0.0 0.293 1.0	39.5 49.2 -88.7 101.5 299	0.483 0.0 1.0	0.0 0.289 1.0	39.2 49.9 -89.1 102.2 299	0.483 0.0 1.0		
311	300	300	0.5 0.0 1.0	38.5 79.8 -89.7 120.0 311	0.0 0.274 1.0	38.4 52.2 -90.4 104.5 300	0.5 0.0 1.0	0.0 0.27 1.0	38.2 52.8 -90.6 105.0 300	0.5 0.0 1.0		

1-0031030-L0 QE910-70 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 11/29

TUB-test chart QE91; hue code: $H^*_d = G50B_d$
48 step hue circles; $rgb-LabCh$ *tablesinput: $rgb/cmyk \rightarrow rgb_d$
output: transfer to rgb_d

—see similar files: <http://130.149.60.45/~farbmietrik/QE91/QE91.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmietrik>

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGBM*; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}			$LAB^*_{dxd361Mi}(x=LabCh)$			$rgb^*_{ds361Mi}$			$LAB^*_{dsx361Mi}(x=LabCh)$			$rgb^*_{dd361Mi}$			$rgb^*_{de361Mi}$			$LAB^*_{dex361Mi}(x=LabCh)$			$rgb^*_{dd361Mi}$			rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}						
311	300	300	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311	0.0	0.274	1.0	38.4	52.2	-90.4	104.5	300	0.5	0.0	1.0	0.0	0.27	1.0	38.2	52.8	-90.6	105.0	300	0.5	0.0	1.0			
312	301	301	0.516	0.0	1.0	39.1	80.2	-88.7	119.6	312	0.0	0.254	1.0	37.4	55.3	-91.9	107.4	301	0.517	0.0	1.0	0.0	0.251	1.0	37.2	55.7	-92.1	107.7	301	0.517	0.0	1.0			
312	302	302	0.533	0.0	1.0	39.6	80.6	-87.8	119.2	312	0.0	0.222	1.0	36.1	58.8	-94.1	111.0	302	0.533	0.0	1.0	0.0	0.22	1.0	36.0	59.1	-94.2	111.3	302	0.533	0.0	1.0			
312	303	303	0.55	0.0	1.0	40.2	80.9	-86.9	118.8	312	0.0	0.188	1.0	34.8	62.6	-96.3	114.9	303	0.55	0.0	1.0	0.0	0.187	1.0	34.8	62.6	-96.3	115.0	303	0.55	0.0	1.0			
313	304	303	0.566	0.0	1.0	40.7	81.3	-86.0	118.3	313	0.0	0.153	1.0	33.5	66.4	-98.4	118.8	304	0.567	0.0	1.0	0.0	0.154	1.0	33.6	66.3	-98.3	118.6	303	0.567	0.0	1.0			
313	305	304	0.583	0.0	1.0	41.3	81.6	-85.1	117.9	313	0.0	0.109	1.0	32.2	70.4	-100.4	122.7	305	0.583	0.0	1.0	0.0	0.117	1.0	32.4	70.0	-100.2	122.3	304	0.583	0.0	1.0			
314	306	305	0.6	0.0	1.0	41.8	82.0	-84.1	117.5	314	0.0	0.024	1.0	30.8	74.8	-102.8	127.2	306	0.6	0.0	1.0	0.0	0.036	1.0	31.0	74.2	-102.5	126.6	305	0.6	0.0	1.0			
314	307	306	0.616	0.0	1.0	42.4	82.3	-83.2	117.0	314	0.172	0.0	1.0	31.6	76.5	-101.4	127.1	307	0.617	0.0	1.0	0.146	0.0	1.0	31.3	76.4	-102.0	127.5	306	0.617	0.0	1.0			
315	308	307	0.633	0.0	1.0	43.0	82.7	-82.2	116.6	315	0.282	0.0	1.0	33.2	77.2	-98.6	125.3	308	0.633	0.0	1.0	0.263	0.0	1.0	32.9	77.0	-99.3	125.7	307	0.633	0.0	1.0			
315	309	308	0.65	0.0	1.0	43.6	83.2	-81.2	116.3	315	0.357	0.0	1.0	34.8	77.8	-96.0	123.7	309	0.65	0.0	1.0	0.335	0.0	1.0	34.3	77.6	-96.8	124.2	308	0.65	0.0	1.0			
316	310	309	0.666	0.0	1.0	44.2	83.7	-80.2	115.9	316	0.414	0.0	1.0	36.2	78.6	-93.6	122.3	310	0.667	0.0	1.0	0.396	0.0	1.0	35.8	78.3	-94.4	122.8	309	0.667	0.0	1.0			
316	311	310	0.683	0.0	1.0	44.8	84.1	-79.2	115.5	316	0.465	0.0	1.0	37.6	79.4	-91.2	121.0	311	0.683	0.0	1.0	0.445	0.0	1.0	37.1	79.1	-92.2	121.5	310	0.683	0.0	1.0			
317	312	311	0.7	0.0	1.0	45.4	84.6	-78.1	115.2	317	0.513	0.0	1.0	39.0	80.1	-88.9	119.8	312	0.7	0.0	1.0	0.493	0.0	1.0	38.4	79.8	-89.9	120.3	311	0.7	0.0	1.0			
317	313	312	0.716	0.0	1.0	46.0	85.0	-77.1	114.8	317	0.551	0.0	1.0	40.3	81.0	-86.8	118.8	313	0.717	0.0	1.0	0.532	0.0	1.0	39.6	80.6	-87.9	119.3	312	0.717	0.0	1.0			
318	314	313	0.733	0.0	1.0	46.6	85.4	-76.1	114.4	318	0.59	0.0	1.0	41.6	81.8	-84.6	117.8	314	0.733	0.0	1.0	0.569	0.0	1.0	40.8	81.4	-85.8	118.3	313	0.733	0.0	1.0			
318	315	314	0.75	0.0	1.0	47.2	85.8	-75.1	114.0	318	0.628	0.0	1.0	42.8	82.6	-82.5	116.8	315	0.75	0.0	1.0	0.605	0.0	1.0	42.1	82.1	-83.8	117.4	314	0.75	0.0	1.0			
319	316	315	0.766	0.0	1.0	47.9	86.4	-74.0	113.8	319	0.66	0.0	1.0	44.0	83.5	-80.6	116.1	316	0.767	0.0	1.0	0.639	0.0	1.0	43.2	82.9	-88.0	116.6	315	0.767	0.0	1.0			
320	317	316	0.783	0.0	1.0	48.5	87.0	-72.9	113.5	320	0.692	0.0	1.0	45.2	84.4	-78.6	115.4	317	0.783	0.0	1.0	0.669	0.0	1.0	44.3	83.8	-80.1	115.9	316	0.783	0.0	1.0			
320	318	317	0.8	0.0	1.0	49.2	87.5	-71.8	113.2	320	0.724	0.0	1.0	46.3	85.2	-76.6	114.7	318	0.8	0.0	1.0	0.699	0.0	1.0	45.4	84.6	-78.1	115.2	317	0.8	0.0	1.0			
321	319	318	0.816	0.0	1.0	49.8	88.1	-70.7	113.0	321	0.755	0.0	1.0	47.5	86.0	-74.7	114.0	319	0.817	0.0	1.0	0.729	0.0	1.0	46.5	85.4	-76.3	114.5	318	0.817	0.0	1.0			
321	320	319	0.833	0.0	1.0	50.5	88.6	-69.6	112.7	321	0.783	0.0	1.0	48.6	87.0	-72.9	113.6	320	0.833	0.0	1.0	0.758	0.0	1.0	47.6	86.2	-74.5	114.0	319	0.833	0.0	1.0			
322	321	320	0.85	0.0	1.0	51.2	89.1	-68.5	112.4	322	0.81	0.0	1.0	49.7	87.9	-71.1	113.1	321	0.85	0.0	1.0	0.785	0.0	1.0	48.6	87.1	-72.8	113.5	320	0.85	0.0	1.0			
323	322	321	0.866	0.0	1.0	51.8	89.6	-67.4	112.1	323	0.838	0.0	1.0	50.7	88.8	-69.3	112.7	322	0.867	0.0	1.0	0.811	0.0	1.0	49.7	87.9	-71.0	113.1	321	0.867	0.0	1.0			
323	323	321	0.883	0.0	1.0	52.5	90.1	-66.3	111.9	323	0.866	0.0	1.0	51.8	89.6	-67.4	112.2	323	0.883	0.0	1.0	0.837	0.0	1.0	50.7	88.8	-69.3	112.7	321	0.883	0.0	1.0			
324	324	322	0.9	0.0	1.0	53.2	90.8	-65.2	111.8	324	0.892	0.0	1.0	52.9	90.5	-65.7	111.9	324	0.9	0.0	1.0	0.864	0.0	1.0	51.7	89.5	-67.6	112.2	322	0.9	0.0	1.0			
324	325	323	0.916	0.0	1.0	53.8	91.4	-64.1	111.6	324	0.918	0.0	1.0	53.9	91.5	-64.0	111.7	325	0.917	0.0	1.0	0.889	0.0	1.0	52.8	90.4	-65.9	111.9	323	0.917	0.0	1.0			
325	326	324	0.933	0.0	1.0	54.5	92.0	-62.9	111.5	325	0.943	0.0	1.0	55.0	92.4	-62.2	111.5	326	0.933	0.0	1.0	0.913	0.0	1.0	53.7	91.3	-64.3	111.7	324	0.933	0.0	1.0			
326	327	325	0.95	0.0	1.0	55.2	92.6	-61.8	111.4	326	0.969	0.0	1.0	56.0	93.3	-60.5	111.3	327	0.95	0.0	1.0	0.937	0.0	1.0	54.7	92.2	-62.6	111.5	325	0.95	0.0	1.0			
326	328	326	0.966	0.0	1.0	55.9	93.2	-60.7	111.2	326	0.994	0.0	1.0	57.1	94.2	-58.7	111.0	328	0.967	0.0	1.0	0.961	0.0	1.0	55.7	93.1	-61.0	111.3	326	0.967	0.0	1.0			
327	329	327	0.983	0.0	1.0	56.6	93.8	-59.5	111.1	327	1.0	0.0	0.984	57.1	93.9	-56.4	109.6	329	0.983	0.0	1.0	0.985	0.0	1.0	56.7	93.9	-59.3	111.1	327	0.983	0.0	1.0			
328	330	328	1.0	0.0	1.0	57.2	94.3	-58.4	110.9	328	M_d 1.0	0.0	0.962	56.8	93.4	-53.8	107.8	330	M_s 1.0	0.0	1.0	1.0	0.0	0.992	57.2	94.2	-57.4	110.3	328	M_e 1.0	0.0	1.0			
329	331	329	1.0	0.0	0.983	57.0	93.9	-56.4	109.5	329	1.0	0.0	0.941	56.5	92.7	-51.3	106.0	331	1.0	0.0	0.983	1.0	0.0	0.972	56.9	93.6	-54.9	108.6	329	1.0	0.0	0.983			
329	332	330	1.0	0.0	0.966	56.8	93.4	-54.4	108.1	329	1.0	0.0	0.919	56.2	92.0	-48.8	104.2	332	1.0	0.0	0.967	1.0	0.0	0.951	56.7	93.0	-52.5	106.9	330	1.0	0.0	0.967			
330	333	331	1.0	0.0	0.95	56.6	92.9	-52.4	106.7	330	1.0	0.0	0.898	55.9	91.2	-46.4	102.4	333	1.0	0.0	0.95	1.0	0.0	0.931	56.4	92.4	-50.2	105.2	331	1.0	0.0	0.95			
331	334	332	1.0	0.0	0.933	56.4	92.4	-50.5	105.3	331	1.0	0.0	0.876	55.7	90.4	-44.0	100.5	334	1.0	0.0	0.933	1.0	0.0	0.911	56.1	91.7	-47.8	103.4	332	1.0	0.0	0.933			
332	335	333	1.0	0.0	0.916	56.1	91.8	-48.6	103.9	332	1.0	0.0	0.86	55.5	90.0	-41.9	99.3	335	1.0	0.0	0.917	1.0	0.0	0.89	55.8	90.9	-45.5	101.7	333	1.0	0.0	0.917			
332	336	334	1.0	0.0	0.9	55.9	91.2	-46.7	102.5	332	1.0	0.0	0.843	55.3	89.6	-39.8	98.1	336	1.0	0.0	0.9	1.0	0.0	0.871	55.6	90.2	-43.3	100.2	334	1.0	0.0	0.9			
333	337	335	1.0	0.0	0.883	55.7	90.6	-44.8	101.1	333	1.0	0.0	0.827	55.1	89.2	-37.8	96.9	337	1.0	0.0	0.883	1.0	0.0	0.856	55.4	89.9	-41.4	99.0	335	1.0	0.0	0.883			
334	338	336	1.0	0.0	0.866	55.5	90.1	-42.8	99.8	334	1.0	0.0	0.811	54.9	88.8	-35.8	95.8	338	1.0	0.0	0.867	1.0	0.0	0.84	55.2	89.6	-39.4	97.9	336	1.0	0.0	0.867			
335	339	337	1.0	0.0	0.85	55.3	89.8	-40.7	98.6	335	1.0	0.0	0.794	54.7	88.3	-33.8	94.6	339	1.0	0.0	0.85	1.0	0.0	0.825	55.1	89.2	-37.5	96.8	337	1.0					

1-0031130-L0	QE910-70	LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0
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TUB-test chart QE91; hue code: $H^*_d = G50B_d$ 48 step hue circles; *rqb-LabCh** tables

input: $rgb/cmyk \rightarrow rgb_d$

output: transfer to rgb_d

Output: sRGB standard device; no separation, D65, page 12/29

TUB registration: 20130201-QE91/QE91L0NP.PDF / PS application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGBM_s*: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;Six hue angles of the device colours *RYGCBM_d*: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours *RYGCBM_e*: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{de361Mi}$
341	345	342	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341	1.0	0.0	0.75
342	346	343	1.0	0.0	0.733	54.0	86.5	-26.4	90.4	342	1.0	0.0	0.733
344	347	344	1.0	0.0	0.716	53.8	86.2	-24.2	89.5	344	1.0	0.0	0.717
345	348	345	1.0	0.0	0.7	53.7	85.8	-22.0	88.6	345	1.0	0.0	0.7
346	349	346	1.0	0.0	0.683	53.5	85.4	-19.9	87.7	346	1.0	0.0	0.683
348	350	347	1.0	0.0	0.666	53.4	85.0	-17.8	86.8	348	1.0	0.0	0.667
349	351	348	1.0	0.0	0.65	53.2	84.5	-15.7	85.9	349	1.0	0.0	0.65
350	352	349	1.0	0.0	0.633	53.0	83.9	-13.6	85.0	350	1.0	0.0	0.633
352	353	350	1.0	0.0	0.616	52.9	83.6	-11.4	84.3	352	1.0	0.0	0.617
353	354	351	1.0	0.0	0.6	52.8	83.4	-9.1	83.9	353	1.0	0.0	0.6
355	355	352	1.0	0.0	0.583	52.7	83.2	-6.9	83.5	355	1.0	0.0	0.583
356	356	353	1.0	0.0	0.566	52.5	82.9	-4.6	83.0	356	1.0	0.0	0.567
358	357	354	1.0	0.0	0.55	52.4	82.5	-2.4	82.6	358	1.0	0.0	0.55
359	358	355	1.0	0.0	0.533	52.3	82.1	-0.1	82.1	359	1.0	0.0	0.533
361	359	356	1.0	0.0	0.516	52.1	81.6	2.0	81.7	361	1.0	0.0	0.517
362	360	352	1.0	0.0	0.5	52.0	81.1	4.1	81.2	362	1.0	0.0	0.5
364	361	353	1.0	0.0	0.483	51.9	81.1	6.5	81.3	364	1.0	0.0	0.483
366	362	354	1.0	0.0	0.466	51.8	81.0	8.8	81.5	366	1.0	0.0	0.467
367	363	355	1.0	0.0	0.45	51.7	80.8	11.1	81.6	367	1.0	0.0	0.45
369	364	356	1.0	0.0	0.433	51.6	80.6	13.5	81.7	369	1.0	0.0	0.433
371	365	357	1.0	0.0	0.416	51.5	80.3	15.8	81.8	371	1.0	0.0	0.417
372	366	358	1.0	0.0	0.4	51.4	79.9	18.1	81.9	372	1.0	0.0	0.4
374	367	359	1.0	0.0	0.383	51.4	79.5	20.4	82.1	374	1.0	0.0	0.383
376	368	360	1.0	0.0	0.366	51.3	79.3	22.7	82.5	376	1.0	0.0	0.367
377	369	362	1.0	0.0	0.35	51.2	79.3	25.1	83.2	377	1.0	0.0	0.35
379	370	363	1.0	0.0	0.333	51.1	79.2	27.4	83.8	379	1.0	0.0	0.333
380	371	364	1.0	0.0	0.316	51.1	79.1	29.7	84.5	380	1.0	0.0	0.317
382	372	365	1.0	0.0	0.3	51.0	78.9	32.1	85.2	382	1.0	0.0	0.3
383	373	366	1.0	0.0	0.283	51.0	78.7	34.4	85.9	383	1.0	0.0	0.283
385	374	367	1.0	0.0	0.266	50.9	78.3	36.8	86.6	385	1.0	0.0	0.267
386	375	368	1.0	0.0	0.25	50.8	77.9	39.2	87.2	386	1.0	0.0	0.25
387	376	369	1.0	0.0	0.233	50.8	78.0	41.2	88.2	387	1.0	0.0	0.233
389	377	370	1.0	0.0	0.216	50.8	78.0	43.3	89.2	389	1.0	0.0	0.217
390	378	372	1.0	0.0	0.2	50.7	78.0	45.4	90.2	390	1.0	0.0	0.2
391	379	373	1.0	0.0	0.183	50.7	77.9	47.5	91.2	391	1.0	0.0	0.183
392	380	374	1.0	0.0	0.166	50.6	77.8	49.6	92.2	392	1.0	0.0	0.167
393	381	375	1.0	0.0	0.15	50.6	77.6	51.7	93.3	393	1.0	0.0	0.15
394	382	376	1.0	0.0	0.133	50.6	77.3	53.9	94.3	394	1.0	0.0	0.133
395	383	377	1.0	0.0	0.116	50.5	77.2	55.6	95.1	395	1.0	0.0	0.117
396	384	378	1.0	0.0	0.1	50.5	77.2	56.8	95.9	396	1.0	0.0	0.1
396	385	379	1.0	0.0	0.083	50.5	77.2	58.1	96.6	396	1.0	0.0	0.083
397	386	381	1.0	0.0	0.066	50.5	77.2	59.4	97.4	397	1.0	0.0	0.067
398	387	382	1.0	0.0	0.049	50.5	77.1	60.6	98.1	398	1.0	0.0	0.05
398	388	383	1.0	0.0	0.033	50.5	77.1	61.9	98.9	398	1.0	0.0	0.033
399	389	384	1.0	0.0	0.016	50.5	77.0	63.2	99.6	399	1.0	0.0	0.017
400	390	385	1.0	0.0	0.0	50.4	76.9	64.5	100.4	400	1.0	0.0	0.0

1-0031230-L0 QE910-70 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 13/29

TUB-test chart QE91; hue code: H*d=G50Bd

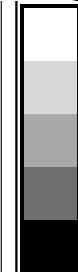
48 step hue circles; $rgb-LabCh$ *tablesinput: $rgb/cmyk \rightarrow rgb_d$ output: transfer to rgb_d TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

input: *rgb/cmyk* $\rightarrow$ *rgb*_d
output: transfer to *rgb*_d

Mean color difference of this page:

Mean color difference of this page:



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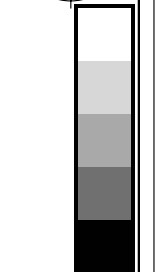
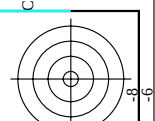
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TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta



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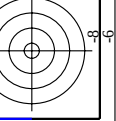
Y

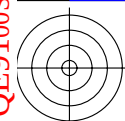
see similar files: <http://130.149.60.45/~farbmatrik/QE91/QE91.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

input: rgb/cmyk -> rgba
output: transfer to rgba

TUB-test chart QE91; hue code: H*d=G50Bd
colors and differences, ΔE*

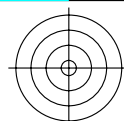
1-0031430-F0





TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
+ application for measurement of display output, no separation

TUB material: code=rha4ta



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see similar files: <http://130.149.60.45/~farbmatrik/QE91/QE91.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

<http://130.149.60.45/~farbmatrik/QE91/QE91LONP.PDF> /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 16/29

[illegible] $\Delta E^* = 4.6$

Mean color difference of this page:

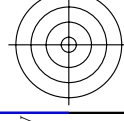
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— 2017 —

input: *rgb/cmyk* -> *rgb*

TUB-test chart QE91; hue code: H_d=G50B_d

-0031530-E0



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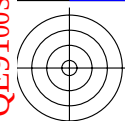
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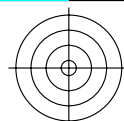
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TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE91/QE91LONP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/29

[illegible] $\Delta E^* = 9.4$

Mean color difference of this page:

Q: T

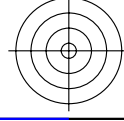
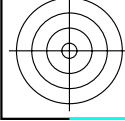
1001-2000

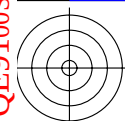
TUB-test chart QE91; hue code: H_d^{*}=G50B_d

input: *rgb/cmyk* $\rightarrow$ *rgba*
output: transfer to *rgba*

TUB-test chart QE91; hu

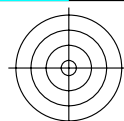
-see similar files: <http://130.149.60.45/~farbmetrik/QE91/QE91.HTM>
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>





TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



<http://130.149.60.45/~farbmatrik/QE91/QE91LONP.PDF> /PS; transfer output N; no 3D-linearization (OL) in file (F) or PS-startup (S), page 23/29

n	HIC ^{Fe}	rgb ^{Fe}	fcc ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	DE ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	n											
567	R00Y_087_087d4	0.875	0.0	0.875	0.875	0.437	380	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
568	R36Y_087_087d4	0.875	0.125	0.875	0.875	0.437	382	0.875	0.0	44.2	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
569	R23Y_087_087d4	0.875	0.0	0.875	0.875	0.437	374	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
570	R08Y_087_087d4	0.875	0.0	0.875	0.875	0.437	365	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
571	R08Y_087_087d4	0.875	0.0	0.875	0.875	0.437	355	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
572	R63R_087_087d4	0.875	0.0	0.875	0.875	0.437	346	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
573	R63R_087_087d4	0.875	0.0	0.875	0.875	0.437	338	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
574	R50R_087_087d4	0.875	0.0	0.875	0.875	0.437	330	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
575	R44R_100_100d4	0.875	0.0	0.875	0.875	0.437	323	0.875	0.0	44.1	67.3	56.4	87.5	40.0	58.3	39.9	90.8	58.3	2.9	389	1.0	0.0	50.4	76.9	64.5	100.4	40.0
576	R13Y_087_075d4	0.875	0.125	0.875	0.875	0.437	38	0.875	0.116	0.0	45.2	64.1	56.9	85.8	41.5	57.1	25.7	37.7	10.0	0.133	0.0	0.0	51.7	73.4	65.0	98.0	41.5
577	R00Y_087_075d4	0.875	0.125	0.875	0.875	0.437	390	0.875	0.125	0.125	49.7	57.7	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
578	R33Y_087_075d4	0.875	0.125	0.875	0.875	0.437	381	0.875	0.125	0.125	50.2	58.2	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
579	R33Y_087_075d4	0.875	0.125	0.875	0.875	0.437	381	0.875	0.125	0.125	50.2	58.2	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
580	R65R_087_075d4	0.875	0.125	0.875	0.875	0.437	381	0.875	0.125	0.125	50.2	58.2	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
581	R65R_087_075d4	0.875	0.125	0.875	0.875	0.437	381	0.875	0.125	0.125	50.2	58.2	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
582	R57R_087_075d4	0.875	0.125	0.875	0.875	0.437	381	0.875	0.125	0.125	50.2	58.2	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
583	R57R_087_075d4	0.875	0.125	0.875	0.875	0.437	381	0.875	0.125	0.125	50.2	58.2	38.8	49.9	43.6	61.9	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
584	R26Y_087_087d4	0.875	0.125	1.0	0.875	0.562	322	0.875	0.233	0.0	47.8	57.0	58.0	81.3	45.5	57.1	25.7	37.7	10.0	0.133	0.0	0.0	51.7	73.4	65.0	98.0	41.5
585	R15Y_087_075d4	0.875	0.25	0.875	0.75	0.5	39	0.875	0.237	0.125	50.9	54.3	48.9	73.1	41.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
586	R00Y_087_062d4	0.875	0.25	0.875	0.625	0.562	390	0.875	0.25	0.25	55.4	48.3	40.9	62.7	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
587	R11Y_087_062d4	0.875	0.25	0.875	0.625	0.562	367	0.875	0.25	0.389	55.9	48.7	29.7	57.0	51.3	41.4	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
588	R00Y_087_062d4	0.875	0.25	0.875	0.625	0.562	357	0.875	0.25	0.489	55.9	48.7	12.8	51.3	41.4	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
589	B69R_087_062d4	0.875	0.25	0.875	0.625	0.562	353	0.875	0.25	0.635	56.9	52.2	-7.1	52.7	35.2	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
590	B59R_087_062d4	0.875	0.25	0.875	0.625	0.562	341	0.875	0.25	0.735	58.5	55.5	-22.8	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0			
591	B59R_087_062d4	0.875	0.25	0.875	0.625	0.562	341	0.875	0.25	0.735	58.5	55.5	-22.8	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0			
592	B42R_100_075d4	0.875	0.25	0.875	0.625	0.562	330	0.875	0.25	0.875	59.6	58.4	-36.5	69.3	32.4	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
593	B42R_100_075d4	0.875	0.25	1.0	0.75	0.625	321	0.875	0.25	1.0	66.8	58.4	-36.5	69.3	32.4	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
594	R11Y_087_075d4	0.875	0.375	0.0	0.875	0.437	55	0.875	0.364	0.0	52.5	44.4	60.6	75.1	53.7	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
595	R11Y_087_075d4	0.875	0.375	0.125	0.875	0.437	55	0.875	0.364	0.125	54.1	45.5	50.4	67.9	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
596	R18Y_087_062d4	0.875	0.375	0.25	0.875	0.562	41	0.875	0.375	0.25	56.8	44.0	40.9	60.1	42.8	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
597	R00Y_087_050d4	0.875	0.375	0.375	0.875	0.437	390	0.875	0.375	0.375	61.0	38.4	32.2	50.2	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
598	R26Y_087_050d4	0.875	0.375	0.375	0.875	0.437	390	0.875	0.375	0.375	61.0	38.4	32.2	50.2	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
599	R00Y_087_050d4	0.875	0.375	0.625	0.875	0.437	390	0.875	0.375	0.625	61.0	38.4	32.2	50.2	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
600	R00Y_087_050d4	0.875	0.375	0.625	0.875	0.437	390	0.875	0.375	0.625	61.0	38.4	32.2	50.2	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
601	R00Y_087_050d4	0.875	0.375	0.625	0.875	0.437	390	0.875	0.375	0.625	61.0	38.4	32.2	50.2	40.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
602	R40R_100_062d4	0.875	0.375	1.0	0.875	0.687	319	0.875	0.375	1.0	66.8	55.0	-44.2	70.6	32.2	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0	
603	R58Y_087_050d4	0.875	0.375	0.0	0.875	0.437	65	0.875	0.375	0.0	59.4	27.1	64.8	70.2	69.7	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
604	R58Y_087_050d4	0.875	0.375	0.0	0.875	0.437	65	0.875	0.375	0.0	59.4	27.1	64.8	70.2	69.7	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
605	R38Y_087_050d4	0.875	0.375	0.0	0.875	0.437	65	0.875	0.375	0.0	59.4	27.1	64.8	70.2	69.7	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
606	R23Y_087_050d4	0.875	0.375	0.0	0.875	0.437	65	0.875	0.375	0.0	59.4	27.1	64.8	70.2	69.7	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
607	R00Y_087_037d4	0.875	0.5	0.875	0.375	0.687	390	0.875	0.5	0.875	67.7	32.0	42.6	54.6	51.3	42.6	54.6	51.3	42.6	54.6	51.3	42.6	54.6	51.3	42.6	54.6	51.3
608	R00Y_087_037d4	0.875	0.5	0.875	0.375	0.687	390	0.875	0.5	0.875	67.7	32.0	42.6	54.6	51.3	42.6	54.6	51.3	42.6	54.6	51.3	42.6	54.6	51.3	42.6	54.6	51.3
609	B65R_087_037d4	0.875	0.5	0.875	0.375	0.687	349	0.875	0.5	0.875	69.1	35.3	-21.9	41.6	32.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
610	B65R_087_037d4	0.875	0.5	0.875	0.375	0.687	330	0.875	0.5	0.875	69.1	35.3	-21.9	41.6	32.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
611	B38R_100_050d4	0.875	0.5	1.0	0.875	0.687	319	0.875	0.5	1.0	71.6	43.2	-39.7	56.9	39.4	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
612	R73Y_087_087d4	0.875	0.625	0.0	0.875	0.437	74	0.875	0.625	0.0	66.7	10.0	69.4	70.2	69.7	49.9	60.1	36.0	9.5	38.9	1.0	0.0	50.4	76.9	64.5	100.4	40.0
613	R68Y_087_075d4	0.875	0.625	0.125	0.875	0.562	67	0.875	0.625	0.125	67.0	13.8	58.2	59.8	76.5	49.9	60.1										

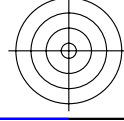
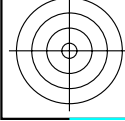
Mean color difference of this name:

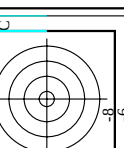
input: *rgb/cmyk* $\rightarrow$ *rgb*
output: transfer to *rgb*

TUB-test chart QE91; hue code: H_d^{*}=G50B_d

colors and differences, ΔE^* ,

-see similar files: <http://130.149.60.45/~farbmatrik/QE91/QE91.HTM>
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>





TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmetrik/QE91/QE91.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

input: *rgb/cmyk* $\rightarrow$ *rgb*_d
output: transfer to *rgb*_d

TUB-test chart QE91; hue code: H_d^{*}=G50B_d

QE910-7N, Page 25/29-F

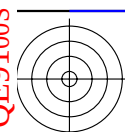
1-0032430-E0

10

http://130.149.60.45/~farbmatrik/QE91/QE91LONP.PDF /PS; transfer output

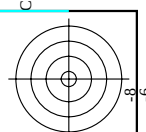
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 25/29

Mean color difference of this page: delta E* = 7.3									
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TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE91/QE91LONP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 27/29

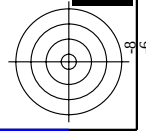
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input: *rgb/cmyk* — $\rightarrow$ *rgb*
output: transfer to *rgba*

TUB-test chart QE91; hue code: H_d^{*}=G50B_dcolors and differences, ΔE^* ,

1-0032630-F0

-see similar files: <http://130.149.60.45/~farbmetrik/QE91/QE91.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



<http://130.149.60.45/~farbmeterik/QE91/QE91LONP.PDF> /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/29

[illegible]

Mean color difference of this page:

input: *rgb/cmyk* → *rgb*
output: transfer to *rgb*

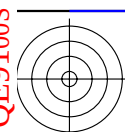
TUB-test chart QE91; hue code: H_d^{*}=G50B_d

QE910-7N, Page 28/29-F

1-0032730-E0



http://130.149.60.45/~farbmetrik/QE91/QE91L0NP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 29/29



see similar files: <http://130.149.60.45/~farbmetrik/QE91/QE91.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE91/QE91L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

input: *rgb/cmyk* - > *rgbd*
output: transfer to *rgbd*

TUB-test chart QE91; hue code: H*d=G50Bd
colors and differences, ΔE^*

n	HVC*Fd	rgb_Fd	lcr_Fd	hsl_Fd	rgb**Fd	LabCh**Fd	rgb**Fd	LabCh**Fd	DF**Fd	hsl**d	rgb**Md	LabCh**Md
1053	NW_086d	0.866	0.866	0.866	0.866	0.866	0.866	0.866	1.3	360	1.0	95.4
1054	NW_093d	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.6	360	1.0	95.4
1055	NW_100d	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4
1056	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	95.4
1057	NW_006d	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.0	360	1.0	95.4
1058	NW_013d	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.0	360	1.0	95.4
1059	NW_020d	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	360	1.0	95.4
1060	NW_026d	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.0	360	1.0	95.4
1061	NW_033d	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.0	360	1.0	95.4
1062	NW_040d	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	360	1.0	95.4
1063	NW_046d	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.0	360	1.0	95.4
1064	NW_053d	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.0	360	1.0	95.4
1065	NW_060d	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	360	1.0	95.4
1066	NW_066d	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.0	360	1.0	95.4
1067	NW_073d	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.0	360	1.0	95.4
1068	NW_080d	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	360	1.0	95.4
1069	NW_086d	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.0	360	1.0	95.4
1070	NW_093d	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.0	360	1.0	95.4
1071	NW_100d	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4
1072	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	95.4
1073	ROY_100_100d	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4
1074	G50B_100_100d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	95.4
1075	Y06C_100_100d	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4
1076	B06C_100_100d	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	95.4
1077	B06C_100_100d	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4
1078	B06C_100_100d	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4
1079	B50R_100_100d	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	95.4

Mean color difference of this page: $\Delta E^* = 1.0$

input: *rgb/cmyk* - > *rgbd*
output: transfer to *rgbd*

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