see similar files of the whole serie: http://farbe.li.tu-berlin.de/fems.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20240301-fem9/fem9l0np.pdf /.ps
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

Basic television colour or mixture colour for D65 CIE data for White Y_W=200	chromaticity x_d	chromaticity y_d	tristimulus values (Y_d=200 for White D65) X_d	Y_d	Z_d
three additive mixture colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
C_{D0} **Cyan 200** (*rgb**=0 p p)	0,224	0,328	107,62	157,48	213,96
M_{D0} **Magenta 200** (*rgb**=p 0 p)	0,320	0,154	118,56	56,96	193,99
Y_{D0} **Yellow 200** (*rgb**=p p 0)	0,419	0,505	153,98	185,56	27,70
three additive basic colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
R_{D0} **Red 200** (*rgb**=p 0 0)	0,640	0,330	82,46	42,52	3,86
G_{D0} **Green 200** (*rgb**=0 p 0)	0,300	0,600	71,52	143,04	23,83
B_{D0} **Blue 200** (*rgb**=0 0 p)	0,150	0,060	36,10	14,44	190,12
achromatic colours with different normalization:					
W_{P1} **White 200** (*rgb**=p p p) **p=1,30**	0,312	0,329	190,10	200,00	217,80
W_{D0} **White 100** (*rgb=rgb**=1 1 1)	0,312	0,329	95,05	100,00	108,90
N_{d0} **Black 2,5** (*rbg=rgb**=0 0 0)	0,312	0,329	2,37	2,50	2,72
N_{p1} **Black 1,8** (*rgb**=q q q) **q=−0,03**	0,312	0,329	1,71	1,80	1,96

fem90-3n

Basic television colour or mixture colour for D65 CIE data for White Y_W=200	CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($Y_{d,P1}$=200 for White D65) L^*_d	a^*_d	b^*_d	$C^*_{ab,d}$	$h_{ab,d}$
three additive mixture colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
C_{P1} **Cyan 200** (*rgb**=0 p p)	118,95	−60,58	−17,81	63,14	199
M_{P1} **Magenta 200** (*rgb**=p 0 p)	80,15	123,76	−76,65	145,57	324
Y_{P1} **Yellow 200** (*rgb**=p p 0)	126,54	−27,18	119,03	122,10	110
three additive basic colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
R_{P1} **Red 200** (*rgb**=p 0 0)	71,22	100,89	84,66	131,71	19
G_{P1} **Green 200** (*rgb**=0 p 0)	114,70	−108,59	104,80	150,91	144
B_{P1} **Blue 200** (*rgb**=0 0 p)	44,85	99,77	−135,89	168,59	290
achromatic colours with different normalization:					
W_{P1} **White 200** (*rgb**=p p p) **p=1,30**	130,15	0,00	0,00	0,00	0,00
W_{D0} **White 100** (*rgb=rgb**=1 1 1)	100,00	0,00	0,00	0,00	0,00
N_{d0} **Black 2,5** (*rbg=rgb**=0 0 0)	17,91	0,00	0,00	0,00	0,00
N_{p1} **Black 1,8** (*rgb**=q q q) **q=−0,03**	14,40	0,00	0,00	0,00	0,00

fem91-3n

Basic television colour or mixture colour for D65 CIE data for White Y_W=100	CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($Y_{d,P1}$=100 for White D65) L^*_d	a^*_d	b^*_d	$C^*_{ab,d}$	$h_{ab,d}$
three additive mixture colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
C_{P1} **Cyan 100** (*rgb=rgb**=0 1 1)	91,11	−48,08	−14,13	50,11	199
M_{P1} **Magenta 100** (*rgb=rgb**=1 0 1)	60,31	98,22	−60,84	115,54	324
Y_{P1} **Yellow 100** (*rgb=rgb**=1 1 0)	97,13	−21,57	94,48	96,91	110
three additive basic colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
R_{P1} **Red 100** (*rgb=rgb**=1 0 0)	53,23	80,07	67,19	104,53	19
G_{P1} **Green 100** (*rgb=rgb**=0 1 0)	87,73	−86,18	83,18	119,78	144
B_{P1} **Blue 100** (*rgb=rgb**=0 0 1)	32,30	79,19	−107,86	133,81	290
achromatic colours with different normalization:					
W_{P1} **White 200** (*rgb**=p p p) **p=1,30**	130,15	0,00	0,00	0,00	0,00
W_{D0} **White 100** (*rgb=rgb**=1 1 1)	100,00	0,00	0,00	0,00	0,00
N_{d0} **Black 2,5** (*rbg=rgb**=0 0 0)	17,91	0,00	0,00	0,00	0,00
N_{p1} **Black 1,8** (*rgb**=q q q) **q=−0,03**	14,40	0,00	0,00	0,00	0,00

fem90-7n

Basic television colour or mixture colour for D65 CIE data for White Y_W=500	CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($Y_{d,P2}$=500 for White D65) L^*_d	a^*_d	b^*_d	$C^*_{ab,d}$	$h_{ab,d}$
three additive mixture colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
C_{P2} **Cyan 500** (*rgb**=0 p p)	167,16	−82,22	−24,17	85,70	199
M_{P2} **Magenta 500** (*rgb**=p 0 p)	114,50	167,96	−104,04	197,58	324
Y_{P2} **Yellow 500** (*rgb**=p p 0)	177,46	−36,89	161,56	165,72	110
three additive basic colours of ITU-R BT.709.3, sRGB, IEC 61966−2−1					
R_{P2} **Red 500** (*rgb**=p 0 0)	102,38	136,93	114,90	178,75	19
G_{P2} **Green 500** (*rgb**=0 p 0)	161,38	−147,38	142,24	204,82	144
B_{P2} **Blue 500** (*rgb**=0 0 p)	66,59	135,41	−184,44	228,81	290
achromatic colours with different normalization:					
W_{P2} **White 500**(*rgb**=p p p) **p=1,82**	182,35	0,00	0,00	0,00	0,00
W_{D0} **White 100** (*rgb=rgb**=1 1 1)	100,00	0,00	0,00	0,00	0,00
N_{d0} **Black 2,5** (*rbg=rgb**=0 0 0)	17,91	0,00	0,00	0,00	0,00
N_{p1} **Black 1,8** (*rgb**=q q q) **q=−0,03**	14,40	0,00	0,00	0,00	0,00

fem91-7n

TUB-test chart fem9; Display system sRGB according to IEC 61966-2-1 (1,8<= Y <=500)
CIE data of 3 basic and 3 mixture colours, CIEXYZ & CIELAB , $Y_{WD0/P1/P2}$=100, 200, 500