

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/eec3.htm>
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20230801-eec3/eec310na.txt / .ps
 application for evaluation and measurement of display or print output
 TUB material: code=rh4ta

| Basic television colour or mixture colour for D65 CIE data for White $Y_W=450$ | chromaticity | | tristimulus values ($Y_d=450$ for White D65) | | |
|---|--------------|-------|--|--------|--------|
| | x_d | y_d | X_d | Y_d | Z_d |
| <i>three additive mixture colours of ITU-R BT.709.3, sRGB, IEC 61966-2-1</i> | | | | | |
| C_d Cyan 450 (rgb=rgb*=0 1 1) | 0,224 | 0,328 | 242,14 | 354,33 | 481,42 |
| M_d Magenta 450 (rgb=rgb*=1 0 1) | 0,320 | 0,154 | 266,76 | 128,16 | 436,48 |
| Y_d Yellow 450 (rgb=rgb*=1 1 0) | 0,419 | 0,505 | 346,46 | 417,51 | 62,33 |
| <i>three additive basic colours of ITU-R BT.709.3, sRGB, IEC 61966-2-1</i> | | | | | |
| R_d Red 450 (rgb=rgb*=1 0 0) | 0,640 | 0,330 | 185,54 | 95,67 | 8,69 |
| G_d Green 450 (rgb=rgb*=0 1 0) | 0,300 | 0,600 | 160,92 | 321,84 | 53,63 |
| B_d Blue 450 (rgb=rgb*=0 0 1) | 0,150 | 0,060 | 81,22 | 32,48 | 427,78 |
| <i>achromatic colours with different normalization:</i> | | | | | |
| W₀ White 450 (rgb=rgb*=1 1 1) | 0,312 | 0,329 | 427,72 | 450,00 | 490,05 |
| W₁ White 90 (rgb=rgb*=1 1 1) | 0,312 | 0,329 | 85,54 | 90,00 | 98,01 |
| N₁ Black 2,5 (rgb=rgb*=0 0 0) | 0,312 | 0,329 | 2,37 | 2,50 | 2,72 |
| N₀ Black 0 (rgb=rgb*=0 0 0) | 0,312 | 0,329 | 0,00 | 0,00 | 0,00 |

eec30-3n

| Basic television colour or mixture colour for D65 CIE data for White $Y_W=450$ | Standard CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($L^*_d=450$ for white; $L^*_d=18,0$ for black) | | | | |
|---|--|---------|---------|--------------|------------|
| | L^*_d | a^*_d | b^*_d | $C^*_{ab,d}$ | $h_{ab,d}$ |
| <i>three additive mixture colours of ITU-R BT.709.3, sRGB, IEC 61966-2-1</i> | | | | | |
| C_d Cyan 450 (rgb=rgb*=0 1 1) | 160,84 | -79,38 | -23,33 | 82,74 | 199 |
| M_d Magenta 450 (rgb=rgb*=1 0 1) | 110,00 | 162,17 | -100,45 | 190,76 | 324 |
| Y_d Yellow 450 (rgb=rgb*=1 1 0) | 170,78 | -35,62 | 155,98 | 160,00 | 110 |
| <i>three additive basic colours of ITU-R BT.709.3, sRGB, IEC 61966-2-1</i> | | | | | |
| R_d Red 450 (rgb=rgb*=1 0 0) | 98,30 | 132,20 | 110,94 | 172,58 | 19 |
| G_d Green 450 (rgb=rgb*=0 1 0) | 155,26 | -142,29 | 137,33 | 197,76 | 144 |
| B_d Blue 450 (rgb=rgb*=0 0 1) | 63,74 | 130,74 | -178,07 | 220,92 | 290 |
| <i>achromatic colours with different normalization:</i> | | | | | |
| W₀ White 450 (rgb=rgb*=1 1 1) | 175,51 | 0,00 | 0,00 | 0,00 | 0 |
| W₁ White 90 (rgb=rgb*=1 1 1) | 95,40 | 0,00 | 0,00 | 0,00 | 0 |
| N₁ Black 2,5 (rgb=rgb*=0 0 0) | 18,00 | 0,00 | 0,00 | 0,00 | 0 |
| N₀ Black 0 (rgb=rgb*=0 0 0) | 0,00 | 0,00 | 0,00 | 0,00 | 0 |

eec31-3n

| Basic television colour or mixture colour for D65 CIE data for White $Y_W=450$ | chromaticity | | tristimulus values ($Y_d=450$ for White D65) | | |
|---|--------------|-------|--|--------|--------|
| | x_d | y_d | X_d | Y_d | Z_d |
| <i>three additive mixture colours of ITU-R BT.2020-2 & ISO 22028-5: Wide Colour Gamut</i> | | | | | |
| C_d Cyan 450 (rgb=rgb*=0 1 1) | 0,146 | 0,344 | 141,07 | 331,78 | 490,06 |
| M_d Magenta 450 (rgb=rgb*=1 0 1) | 0,368 | 0,147 | 362,62 | 144,89 | 477,42 |
| Y_d Yellow 450 (rgb=rgb*=1 1 0) | 0,446 | 0,537 | 351,70 | 423,31 | 12,63 |
| <i>three additive basic colours of ITU-R BT.2020-2 & ISO 22028-5: Wide Colour Gamut</i> | | | | | |
| R_d Red 450 (rgb=rgb*=1 0 0) | 0,708 | 0,292 | 286,63 | 118,21 | 0,00 |
| G_d Green 450 (rgb=rgb*=0 1 0) | 0,170 | 0,797 | 65,07 | 305,09 | 12,63 |
| B_d Blue 450 (rgb=rgb*=0 0 1) | 0,131 | 0,046 | 75,99 | 26,68 | 477,42 |
| <i>achromatic colours with different normalization:</i> | | | | | |
| W₀ White 450 (rgb=rgb*=1 1 1) | 0,312 | 0,329 | 427,72 | 450,00 | 490,05 |
| W₁ White 90 (rgb=rgb*=1 1 1) | 0,312 | 0,329 | 85,54 | 90,00 | 98,01 |
| N₁ Black 2,5 (rgb=rgb*=0 0 0) | 0,312 | 0,329 | 2,37 | 2,50 | 2,72 |
| N₀ Black 0 (rgb=rgb*=0 0 0) | 0,312 | 0,329 | 0,00 | 0,00 | 0,00 |

eec30-7n

| Basic television colour or mixture colour for D65 CIE data for White $Y_W=450$ | Standard CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($L^*_d=450$ for white; $L^*_d=18,0$ for black) | | | | |
|---|--|---------|---------|--------------|------------|
| | L^*_d | a^*_d | b^*_d | $C^*_{ab,d}$ | $h_{ab,d}$ |
| <i>three additive mixture colours of ITU-R BT.2020-2 & ISO 22028-5: Wide Colour Gamut</i> | | | | | |
| C_d Cyan 450 (rgb=rgb*=0 1 1) | 157,01 | -175,40 | -31,89 | 178,28 | 194 |
| M_d Magenta 450 (rgb=rgb*=1 0 1) | 115,26 | 215,48 | -101,01 | 237,98 | 333 |
| Y_d Yellow 450 (rgb=rgb*=1 1 0) | 171,64 | -35,47 | 225,99 | 228,75 | 107 |
| <i>three additive basic colours of ITU-R BT.2020-2 & ISO 22028-5: Wide Colour Gamut</i> | | | | | |
| R_d Red 450 (rgb=rgb*=1 0 0) | 106,65 | 193,68 | 183,88 | 267,07 | 14 |
| G_d Green 450 (rgb=rgb*=0 1 0) | 152,24 | -284,50 | 192,53 | 343,52 | 153 |
| B_d Blue 450 (rgb=rgb*=0 0 1) | 58,68 | 142,16 | -198,57 | 244,21 | 287 |
| <i>achromatic colours with different normalization:</i> | | | | | |
| W₀ White 450 (rgb=rgb*=1 1 1) | 175,51 | 0,00 | 0,00 | 0,00 | 0 |
| W₁ White 90 (rgb=rgb*=1 1 1) | 95,40 | 0,00 | 0,00 | 0,00 | 0 |
| N₁ Black 2,5 (rgb=rgb*=0 0 0) | 18,00 | 0,00 | 0,00 | 0,00 | 0 |
| N₀ Black 0 (rgb=rgb*=0 0 0) | 0,00 | 0,00 | 0,00 | 0,00 | 0 |

eec31-7n