standard tristimulus values for 2°-observer and standard illuminant D65

wavelength	tristimulus values, 2°, *D65*, 20 nm			notes
λ/nm	$\bar{x}(\lambda)S(\lambda)$	$\bar{y}(\lambda)S(\lambda)$	$\bar{z}(\lambda)S(\lambda)$	$S(\lambda) = S_{D65}(\lambda)$
380	0,0129	0,0004	0,0609	
400	0,2237	0,0062	1,0607	370 nm ... 490 nm
420	2,3701	0,0705	11,3849	violetblue *V*
440	6,8984	0,4555	34,6028	
460	6,4678	1,3345	37,1255	
480	2,0929	3,0417	17,7907	
500	0,1012	6,6717	5,6183	
520	1,2519	14,0488	1,5483	
540	5,7242	18,8047	0,4001	490 nm ... 590 nm
560	11,2246	18,7863	0,0736	leafgreen *L*
580	16,5738	15,7363	0,0298	
600	18,0496	10,7224	0,0136	
620	14,1475	6,3087	0,0031	
640	7,0782	2,7656	0,0003	
660	2,4970	0,9237	0,0000	590 nm ... 770 nm
680	0,6914	0,2513	0,0000	orangered *O*
700	0,1563	0,0555	0,0000	
720	0,0337	0,0122	0,0000	
740	0,0098	0,0035	0,0000	
760	0,0015	0,0005	0,0000	370 nm ... 770 nm
sum: white	95,6038	100,000	109,7126	white *D65*

NE440−7, BT9_03

elementary colors yellow, red, blue and green by *Miescher* for D65

basic color or mixed color and name	CIE standard chromaticity		CIE standard tristimulus values		
	x	*y*	*X*	*Y*	*Z*
four elementary colors:					
J yellow	0,4449	0,4909		77,82	
R red	0,5813	0,3236		18,11	
B blue	0,1701	0,1355		9,35	
G green	0,1890	0,4496		20,24	
D65 (white)	0,3127	0,3291	95,01	100,00	108,85

NE441−3, BT9_05

basic and mixed colors of standard color television by DIN 6169

basic color or mixed color and name	CIE standard chromaticity		CIE standard tristimulus value		
	x	*y*	*X*	*Y*	*Z*
three additive basic colors:					
O orangered	0,6400	0,3300	43,03	22,19	2,02
L leafgreen	0,2900	0,6000	34,16	70,68	12,96
V violetblue	0,1415	0,0482	17,82	7,13	93,87
three additive mixed colors:					
C cyanblue	0,2197	0,3288	51,98	77,81	106,83
M magentared	0,3270	0,1576	60,85	29,32	95,89
Y yellow	0,4172	0,5019	77,19	92,87	14,98
D65 (white)	0,3127	0,3291	95,01	100,00	108,85

NE441−7, BT9_06