

Farbmetriche "Norm-Daten": Fernseh-Lichtfarben-System TLS18 für Helligkeit $L^*_N=18$ von Schwarz für Lichtart D65

System TLS18

sRGB-System

D65-Reflexion:

$Y_N = 2.52$

$L^*_N = 18.01$

Farbe	r=ol*1	g=ol*2	b=ol*3	L*	a*	b*	C*ab	h*ab	X=XYZ ₁	Y=XYZ ₂	Z=XYZ ₃	x	y	Y/88.59
O (R)	1.0	0.0	0.0	52.76	71.63	49.88	87.29	35	37.89	20.83	4.41	0.6003	0.3299	0.2351
Y	1.0	1.0	0.0	92.74	-20.03	84.97	87.3	103	68.67	82.37	14.66	0.4144	0.4971	0.9298
L (G)	0.0	1.0	0.0	84.0	-78.99	73.94	108.2	137	33.17	64.07	13.0	0.3009	0.5812	0.7231
C	0.0	1.0	1.0	87.14	-44.42	-13.12	46.33	196	48.71	70.29	94.77	0.2279	0.3288	0.7934
V (B)	0.0	0.0	1.0	31.9	24.46	-37.38	44.68	303	9.36	7.04	23.5	0.2346	0.1764	0.0795
M	1.0	0.0	1.0	59.01	89.33	-19.43	91.42	348	53.42	27.04	44.81	0.4265	0.2158	0.3052
N	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0
N0	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Farbmetriche "Adaptierte Daten (a)": Fernseh-Lichtfarben-System TLS18a für Helligkeit $L^*_N=18$ von Schwarz für Lichtart D65

System TLS18a

sRGB-System

D65-Reflexion:

$Y_N = 2.52$

$L^*_N = 18.01$

Farbe	r=ol*1	g=ol*2	b=ol*3	L*a	a*	b*	C*ab,a	h*ab,a	Xa=XYZ _{1a}	Ya=XYZ _{2a}	Za=XYZ _{3a}	xa	ya	Ya/88.59
O (R)	1.0	0.0	0.0	52.76	71.63	49.88	87.29	35	37.89	20.83	4.41	0.6003	0.3299	0.2351
Y	1.0	1.0	0.0	92.74	-20.03	84.97	87.3	103	68.67	82.37	14.66	0.4144	0.4971	0.9298
L (G)	0.0	1.0	0.0	84.0	-78.99	73.94	108.2	137	33.17	64.07	13.0	0.3009	0.5812	0.7231
C	0.0	1.0	1.0	87.14	-44.42	-13.12	46.33	196	48.71	70.29	94.77	0.2279	0.3288	0.7934
V (B)	0.0	0.0	1.0	31.9	24.46	-37.38	44.68	303	9.36	7.04	23.5	0.2346	0.1764	0.0795
M	1.0	0.0	1.0	59.01	89.33	-19.43	91.42	348	53.42	27.04	44.81	0.4265	0.2158	0.3052
N	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0
N0	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Farbmetriche "Adaptierte Daten (a0)": Fernseh-Lichtfarben-System TLS00a0 für Helligkeit $L^*_N=00$ von Schwarz für Lichtart D65

System TLS00a0

sRGB-System

D65-Reflexion:

$Y_N = 0.0$

$L^*_N = 0.0$

$k = 88.59 / (88.59 - 2.52)$

$= 1.029$

Farbe	r=ol*1	g=ol*2	b=ol*3	L*a0	a*a0	b*a0	C*ab,a0	h*ab,a0	Xa0=XYZ _{1a0}	Ya0=XYZ _{2a0}	Za0=XYZ _{3a0}	xa0	ya0	Ya0/88.59
O (R)	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54=k(37.89-2.4)	18.84=k(20.83-2.52)	1.71=k(4.41-2.74)	0.64	0.33	0.2127
Y	1.0	1.0	0.0	92.66	-20.68	90.75	93.08	103	68.22=k(68.67-2.4)	82.19=k(82.37-2.52)	12.27=k(14.66-2.74)	0.4193	0.5053	0.9278
L (G)	0.0	1.0	0.0	83.62	-82.74	79.9	115.03	136	31.68=k(33.17-2.4)	63.35=k(64.07-2.52)	10.55=k(13.0-2.74)	0.3	0.6	0.715
C	0.0	1.0	1.0	86.88	-46.15	-13.54	48.11	196	47.67=k(48.71-2.4)	69.76=k(70.29-2.52)	94.72=k(94.77-2.74)	0.2247	0.3288	0.7874
V (B)	0.0	0.0	1.0	25.72	31.45	-44.28	54.32	305	7.17=k(9.36-2.4)	4.65=k(7.04-2.52)	21.37=k(23.5-2.74)	0.2161	0.1402	0.0525
M	1.0	0.0	1.0	57.3	94.35	-20.68	96.59	348	52.52=k(53.42-2.4)	25.24=k(27.04-2.52)	43.3=k(44.81-2.74)	0.4339	0.2085	0.2849
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=k(2.4-2.4)	0.0=k(2.52-2.52)	0.0=k(2.74-2.74)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2=k(84.2-2.4)	88.59=k(88.59-2.52)	96.46=k(96.46-2.74)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=k(2.4-2.4)	0.0=k(2.52-2.52)	0.0=k(2.74-2.74)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2=k(84.2-2.4)	88.59=k(88.59-2.52)	96.46=k(96.46-2.74)	0.3127	0.329	1.0