

Eingabe: Farbmatisches Reflexions-System ORS18

für Buntton $h^* = lab^*h = 38/360 = 0.105$
 lab^*ch und lab^*nch

ORS18; adaptierte CIELAB-Daten

	$L^* = L_a$	a^*	b^*	C^*_{ab}	h^*_{ab}
Oma	47.94	65.37	50.52	82.62	38
Yma	90.37	-10.27	91.77	92.34	96
Lma	50.9	-62.79	34.95	71.87	151
Cma	58.62	-30.35	-45.01	54.3	236
Vma	25.71	31.11	-44.42	54.24	305
Mma	48.13	75.27	-8.35	75.73	354
Nma	18.01	0.0	0.0	0.0	0
Wma	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
ICIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271



%Umfang
 $u^*_{rel} = 93$
%Regulartät
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn3^* = 0.0$ 0.0 0.0 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABo 95.41 0.0 0.0
LAB*TCHo 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.5 0.0 (1.0)
 $lab^*ch = 1.0$ 0.0 - (0.0)
 $lab^*nch = 1.0$ 0.0 0.0 (0.0)
relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0 (1.0)
 $lab^*tce = 1.0$ 0.0 0.0 (0.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABo 56.71 0.0 0.0
LAB*TCHo 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 (1.0)
 $lab^*ch = 0.5$ 0.0 - (0.0)
 $lab^*nch = 0.5$ 0.0 0.0 (0.0)
relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0 (1.0)
 $lab^*tce = 0.5$ 0.0 0.0 (0.0)
 $lab^*nce = 0.5$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn3^* = 1.0$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 -0.46
LAB*LABo 18.02 0.0 0.0
LAB*TCHo 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 (1.0)
 $lab^*ch = 0.0$ 0.0 - (0.0)
 $lab^*nch = 0.0$ 0.0 0.0 (0.0)
relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0 (1.0)
 $lab^*tce = 0.0$ 0.0 0.0 (0.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

$n^* = 1.0$

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 0.5 0.5 (1.0)
 $cmyn3^* = 0.0$ 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 (1.0)
 $cmyn4^* = 0.0$ 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.67 32.15 28.41
LAB*LABo 71.67 32.15 28.41
LAB*TCHo 75.0 41.3 37.7

relative CIELAB lab*
 $lab^*lab = 0.693$ 0.396 0.306
 $lab^*ch = 0.75$ 0.5 0.105
 $lab^*nch = 0.0$ 0.5 0.105
relative Natural Colour (NC)
 $lab^*lrj = 0.693$ 0.477 0.15
 $lab^*tce = 0.75$ 0.5 0.048
 $lab^*nce = 0.0$ 0.5 0.159

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.0 0.0 (1.0)
 $cmyn3^* = 0.5$ 1.0 1.0 (0.0)
 $olv4^* = 0.5$ 0.5 0.5 (0.5)
 $cmyn4^* = 0.0$ 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 32.98 32.9 25.8
LAB*LABo 32.98 32.98 25.25
LAB*TCHo 25.01 41.3 37.7

relative CIELAB lab*
 $lab^*lab = 0.193$ 0.396 0.306
 $lab^*ch = 0.25$ 0.5 0.105
 $lab^*nch = 0.0$ 0.5 0.105
relative Natural Colour (NC)
 $lab^*lrj = 0.193$ 0.477 0.15
 $lab^*tce = 0.25$ 0.5 0.048
 $lab^*nce = 0.0$ 0.5 0.159

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 0.0 0.0 (1.0)
 $cmyn3^* = 1.0$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 0.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.95 65.29 52.06
LAB*LABo 47.95 65.36 50.51
LAB*TCHo 50.0 82.6 37.7

relative CIELAB lab*
 $lab^*lab = 0.387$ 0.791 0.611
 $lab^*ch = 0.387$ 0.5 0.298
 $lab^*nch = 0.0$ 1.0 0.105
relative Natural Colour (NC)
 $lab^*lrj = 0.387$ 0.654 0.249
 $lab^*tce = 0.5$ 1.0 0.048
 $lab^*nce = 0.0$ 1.0 0.159

$n^* = 0.00$

Schwarzheit n^*

relative Buntheit c^*

Ausgabe: Farbmatisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 30/360 = 0.083$
 lab^*ch und lab^*nch

MRS18; adaptierte CIELAB-Daten

	$L^* = L_a$	a^*	b^*	C^*_{ab}	h^*_{ab}
Rma	49.63	66.96	38.37	77.18	30
Gma	90.7	-6.36	88.75	88.98	94
Yma	52.11	-69.73	9.44	70.37	172
B50Rma	45.03	-36.57	-28.47	46.36	218
Bma	36.65	23.19	-63.05	67.18	290
B50Rma	34.94	57.17	-44.26	72.31	322
Nma	18.01	0.0	0.0	0.0	0
Wma	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
ICIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271



%Umfang
 $u^*_{rel} = 91$
%Regulartät
 $g^*_{H,rel} = 41$
 $g^*_{C,rel} = 52$

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn3^* = 0.0$ 0.0 0.0 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABo 95.41 0.0 0.0
LAB*TCHo 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0 (1.0)
 $lab^*ch = 1.0$ 0.0 - (0.0)
 $lab^*nch = 1.0$ 0.0 0.0 (0.0)
relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0 (1.0)
 $lab^*tce = 1.0$ 0.0 0.0 (0.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 (1.0)
 $cmyn3^* = 0.5$ 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABo 56.71 0.0 0.0
LAB*TCHo 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 (1.0)
 $lab^*ch = 0.5$ 0.0 - (0.0)
 $lab^*nch = 0.5$ 0.0 0.0 (0.0)
relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0 (1.0)
 $lab^*tce = 0.5$ 0.0 0.0 (0.0)
 $lab^*nce = 0.5$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 0.5 0.5 (1.0)
 $cmyn3^* = 0.0$ 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 (1.0)
 $cmyn4^* = 0.0$ 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.53 32.4 28.4
LAB*LABo 72.53 32.47 19.18
LAB*TCHo 75.0 38.58 29.82

relative CIELAB lab*
 $lab^*lab = 0.704$ 0.434 0.249
 $lab^*ch = 0.75$ 0.5 0.083
 $lab^*nch = 0.0$ 0.5 0.083
relative Natural Colour (NC)
 $lab^*lrj = 0.704$ 0.496 0.06
 $lab^*tce = 0.75$ 0.5 0.019
 $lab^*nce = 0.0$ 0.5 0.071

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.0 0.0 (1.0)
 $cmyn3^* = 0.5$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 (0.5)
 $cmyn4^* = 0.0$ 0.5 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 33.83 33.67 19.79
LAB*LABo 33.82 33.47 19.18
LAB*TCHo 25.01 38.58 29.82

relative CIELAB lab*
 $lab^*lab = 0.204$ 0.434 0.249
 $lab^*ch = 0.25$ 0.5 0.083
 $lab^*nch = 0.0$ 0.5 0.083
relative Natural Colour (NC)
 $lab^*lrj = 0.204$ 0.496 0.06
 $lab^*tce = 0.25$ 0.5 0.019
 $lab^*nce = 0.0$ 0.5 0.071

$n^* = 0.00$

Schwarzheit n^*

relative Buntheit c^*

relative Inform. Technology (IT)
 $olv3^* = 0.0$ 0.0 0.0 (0.0)
 $cmyn3^* = 1.0$ 1.0 1.0 (0.0)
 $olv4^* = 0.0$ 0.0 1.0 (1.0)
 $cmyn4^* = 0.0$ 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 -0.46
LAB*LABo 18.02 0.0 0.0
LAB*TCHo 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 (1.0)
 $lab^*ch = 0.0$ 0.0 - (0.0)
 $lab^*nch = 0.0$ 0.0 0.0 (0.0)
relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0 (1.0)
 $lab^*tce = 0.0$ 0.0 0.0 (0.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

$n^* = 1.0$

G100-7, 3 stufige Reihen für konstanten CIELAB Bunton 38/360 = 0.105 (links)

3 stufige Reihen für konstanten CIELAB Bunton 30/360 = 0.083 (rechts)

BAM-Prüfvorlage TG10; Farbmatisches-System ORS18 & MRS18input: $olv^* setrgbcolor$

D65: 2 Lab-Koordinaten; 3 stufige Farbreihen für 10 Bunttöne output: $olv^* setrgbcolor / w^* setgray$