

$\log(\Delta Y)$

CIELABu9

tristimulus value difference

$Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$

$t^*_{CIELABu9} = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY) = (1/1,5) \log[1,5(Y_u/36)] + [1 - (1/1,5)] \log(Y)$

ΔY

2 100

1 10

0 1

$t^*_u = 50, dY_u = 4,05, dY_u/Y_u = 0,2253$

$\log(dY) = 4,05, m_u = 0,33$

$dY_{90} = 6,93, \gamma = 1,5, 1/\gamma - 1/1,5 = 0,66$

$dY_{18} = 4,05, S_u = 36,98, D_u = 13,01$

$dY_{3,6} = 2,36, Y_u = 18, dY_u = 4,05$

application
range

0,1

1

10

100

$Y_u = 18$

100

Y

$Y_N = 3,6$

1

10

$Y_W = 90$

2

$\log(Y)$