

$\log(\Delta Y)$

LABJNDu9

tristimulus value difference

$Y_{nc}=Y_{wRGBnc}=100, \mathbf{21}, \mathbf{72}, \mathbf{7}$

ΔY

1-10

$$t^*_{LABJNDu9} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$t^*_{LABJNDu9} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$dY = A_{0n}(A_{1n} + A_{2n}Y) = A_{0n}(A_{1n} + A_{2u}x) \quad x = Y/Y_u$$

0-1 $A_{0n,D65}=1,5, A_{0n,A}=1,0$, see CIE 230:2019

-1-0, $t^*_u=791, dY_u=0,07, dY_u/Y_u=0,0042$

$\log(dY)=0,33, A_{0n}=1,5, A_{2u}=0,042, f_x=0,42$

$dY_{18}=0,07, A_{1n}=0,037, A_{2n}=0,0024$

$dY_{3,6}=0,02, Y_u=18, dY_u=0,07$

application
range

-2-1 0 10 100 Y
-2 -1 0 1 2 $\log(Y)$
 $x_N=0,2$ $x_W=5$