log (ΔY/ΔYᵤ)   **HAULAB tristimulus value difference**
                        ΔY normalized to ΔYᵤ

$\Delta Y / \Delta Y_u$

$100 L^* = s(Y/Y_u)^n - d$ ($Y_n = 100, Y_u = 37, s = 134.6, n = 0.31, d = 49.5$) [1a]

$L^* = r(Y/Y_u)^n - d$ ($r = s(Y_u/Y_n)^n = 79.10, L^*_u = r - d = 29.5$)   [1b]

Y_curve, ij=1, Yuij=37, L*uij=50

k=99, Ykij=100, L*kij=85.0, $\Delta Y / \Delta Y_u$= 1.95

k=37, Ykij=38, L*kij=50,2, $\Delta Y / \Delta Y_u$=1,00

k=1, Ykij=38, L*kij=−9,4, $\Delta Y / \Delta Y_u$=0,13

k=0, Ykij=1, L*kij=−17,2, $\Delta Y / \Delta Y_u$=0,08

$m_{nu} = 1 - n = 0,690$

$m_u = 0,672$

0,291

0,000 L^*_{TUB}/L^*_o
          $L^*_{TUB,d}$
          $L_{uw}=100u_{100m}$

application
range

0,1   **1**   **10** $Y_u=18$ **100**   **Y**

−1,088

log Y

heo70−6a