

Linear relation CIELAB (L^* , a^* , b^*) and adapted (*a*) CIELAB ($C^*_{ab,a}$, L^*)

System: ORS18a

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

CIELAB hue angles:

$$b^*_a \quad b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$h_{ab} = [38, 96, 151, 236, 305, 354]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$

$$a^*_a = C^*_{ab,a} \cos h_{ab}$$

$$b^*_a = C^*_{ab,a} \sin h_{ab}$$

