

# Relation between the radial purity $p_r$ of Chroma 2 and tristimulus value Y

Data see K. Richter, PhD thesis, University of Basel (Switzerland), 1969, page 101.

V	Y	x <sub>M</sub>	y <sub>M</sub>	a <sub>n,M</sub>	b <sub>n,M</sub>	x <sub>U</sub>	y <sub>U</sub>	a <sub>n,U</sub>	b <sub>n,U</sub>	p <sub>r,MU</sub>
1,000	1,210	0,315	0,296	1,060	-2,130	0,314	0,324	0,310	-1,623	2,290
5,000	19,770	0,314	0,323	0,340	-1,640	0,314	0,324	0,310	-1,623	0,780
9,000	78,660	0,314	0,328	0,230	-1,550	0,314	0,324	0,310	-1,623	0,500

$\log p_r$   $p_r$  radial purity of Chroma 2 hue circles.

$$x = (0,9093 + 0,1192a_n - 0,0133b_n) / (2,3587 + 0,0987a_n - 0,4269b_n) \quad (1)$$

$$y = (1,000 + 0,000a_n + 0,000b_n) / (2,3587 + 0,0987a_n - 0,4269b_n) \quad (2)$$

