



s: 0, 125, 250, 375, 500, 625, 750, 875, 1000  $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$   
 Red R00w – Red R16w = White W

|  |           |       |       |           |       |                  |       |       |           |       |                   |       |                   |       |                  |       |
|--|-----------|-------|-------|-----------|-------|------------------|-------|-------|-----------|-------|-------------------|-------|-------------------|-------|------------------|-------|
| 0,000  | 0,500     | 1,000 | 0,000 | 0,250     | 0,500 | 0,750            | 1,000 | 0,000 | 0,125     | 0,250 | 0,375             | 0,500 | 0,625             | 0,750 | 0,875            | 1,000 |
| R00w   | R08w      | R16w  | R00w  | R04w      | R08w  | R12w             | R16w  | R00w  | R02w      | R04w  | R06w              | R08w  | R10w              | R12w  | R14w             | R16w  |
| Three, 5 and 9 colour steps, numeric specification         |           |       |       |           |       |                  |       |       |           |       |                   |       |                   |       |                  |       |
| 0,00   | e08=0, .. | 1,00  | 0,00  | e04=0, .. | 1,00  | e48=0, ..        | 1,00  | 0,00  | e02=0, .. | 1,00  | c24=0, ..         | 0,00  | e46=0, ..         | 1,00  | e68=0, ..        | 1,00  |
| 0,00   | a1=e08    | 1,00  | 0,00  | b1=e04*a1 | b2=a1 | b3=e48*(1-b2)+b2 | 1,00  | 0,00  | c1=e02*b1 | c2=b1 | c3=e24*(b2-b1)+b1 | c4=b2 | c5=e46*(b3-b2)+b2 | c6=b3 | c7=e68*(1-b3)+b3 | 1,00  |
| Three, 5 and 9 colour steps, numeric calculation example   |           |       |       |           |       |                  |       |       |           |       |                   |       |                   |       |                  |       |
| 0,00   | 0,60      | 1,00  | 0,00  | 0,50      | 1,00  | 0,50             | 1,00  | 0,00  | 0,45      | 1,00  | 0,50              | 0,00  | 0,50              | 1,00  | 0,49             | 1,00  |
| 0,000  | 0,600     | 1,000 | 0,000 | 0,300     | 0,600 | 0,800            | 1,000 | 0,000 | 0,135     | 0,300 | 0,450             | 0,600 | 0,700             | 0,800 | 0,900            | 1,000 |
| 0,000  | 0,390     | 1,000 | 0,000 | 0,202     | 0,390 | 0,690            | 1,000 | 0,000 | 0,115     | 0,202 | 0,299             | 0,390 | 0,538             | 0,690 | 0,844            | 1,000 |
| 0,000  | 0,500     | 1,000 | 0,000 | 0,250     | 0,500 | 0,750            | 1,000 | 0,000 | 0,125     | 0,250 | 0,375             | 0,500 | 0,625             | 0,750 | 0,875            | 1,000 |
| R00w   | R08w      | R16w  | R00w  | R04w      | R08w  | R12w             | R16w  | R00w  | R02w      | R04w  | R06w              | R08w  | R10w              | R12w  | R14w             | R16w  |
| Three, 5 and 9 colour steps, produced visual linearization |           |       |       |           |       |                  |       |       |           |       |                   |       |                   |       |                  |       |
| 0,000  | 0,600     | 1,000 | 0,000 | 0,300     | 0,600 | 0,800            | 1,000 | 0,000 | 0,135     | 0,300 | 0,450             | 0,600 | 0,700             | 0,800 | 0,900            | 1,000 |
| 0,000  | 0,390     | 1,000 | 0,000 | 0,202     | 0,390 | 0,690            | 1,000 | 0,000 | 0,115     | 0,202 | 0,299             | 0,390 | 0,538             | 0,690 | 0,844            | 1,000 |
| 0,000  | 0,500     | 1,000 | 0,000 | 0,250     | 0,500 | 0,750            | 1,000 | 0,000 | 0,125     | 0,250 | 0,375             | 0,500 | 0,625             | 0,750 | 0,875            | 1,000 |
| R00w   | R08w      | R16w  | R00w  | R04w      | R08w  | R12w             | R16w  | R00w  | R02w      | R04w  | R06w              | R08w  | R10w              | R12w  | R14w             | R16w  |

r: 0, 135, 300, 450, 600, 700, 800, 900, 1000 i: 0, 115, 202, 299, 390, 538, 690, 844, 1000  $L^*_{TUBLOG,U} = [50/\log(5)] \log(Y/Y_U) + 50, Y_N=4, Y_U=20, Y_W=100$

hek20-7n, Test samples: 3, 5 and 9 colour steps, greu=0.500, expu=1.000, expa=1.000, expi=1.000

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/heks.htm>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hek2/hek210np.pdf / .ps  
 application for evaluation and measurement of display or print output

TUB material: code=rh4ta