

Technische Information: <http://www.ps.bam.de> oder <http://130.149.60.45/~farbmetrik>

TUB-Registrierung: 20130201-VG39/VG39LONP.PDF /.PS TUB-Material: Code=rh4ta  
 Anwendung für Messung von Display-Ausgabe, keine Separation

| Ostwald-Optimalfarben (o) von maximalem (m) $C_{AB}$ für E00, $Y_w=100$ , $Y_m=520_770$ , CIELAB-Daten         |                  |             |             |             |            |         |        |          |                  |                  |         |         |     |   |
|--|------------------|-------------|-------------|-------------|------------|---------|--------|----------|------------------|------------------|---------|---------|-----|---|
| $i_1, \lambda_1$   | $i_2, \lambda_2$ | $L^*_{100}$ | $a^*_{100}$ | $b^*_{100}$ | $C^*_{ab}$ | $a'$    | $b'$   | $h_{ab}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code    | %       | %   |   |
| 1  | 405              | 32          | 564         | 80.42       | -71.93     | -32.6   | 78.97  | 0.1811   | -0.1001          | 204.3            | 16 484  | 38 592  | Cm  | % |
| 6  | 435              | 33          | 565         | 80.69       | -86.68     | -17.31  | 88.4   | 0.1735   | -0.0924          | 191.2            | 17 488  | 45 627  |     | % |
| 10   | 450              | 33          | 566         | 80.99       | -110.3     | 13.71   | 111.15 | 0.1612   | -0.0768          | 172.9            | 19 498  | -1 498c |     | % |
| 12   | 460              | 33          | 568         | 81.45       | -119.36    | 34.48   | 124.25 | 0.1568   | -0.0665          | 163.8            | 21 507  | -1 507c |     | % |
| 13   | 465              | 33          | 569         | 81.92       | -121.61    | 45.97   | 130.01 | 0.1559   | -0.0609          | 159.2            | 22 514  | -1 514c |     | % |
| 14   | 470              | 34          | 571         | 82.66       | -120.77    | 57.74   | 133.86 | 0.1568   | -0.0553          | 154.4            | 24 522  | -1 522c |     | % |
| 14   | 475              | 35          | 575         | 84.24       | -115.44    | 60.46   | 130.32 | 0.1605   | -0.0544          | 152.3            | 25 525  | -1 525c | Gm  | % |
| 16   | 480              | 36          | 581         | 86.11       | -105.73    | 83.03   | 134.43 | 0.1664   | -0.0442          | 141.8            | 27 538  | -1 538c |     | % |
| 17   | 485              | 39          | 595         | 90.19       | -81.64     | 98.55   | 127.97 | 0.18     | -0.0386          | 129.6            | 29 549  | -1 549c |     | % |
| 18   | 490              | -1          | 490c        | 97.85       | -20.19     | 119.57  | 121.26 | 0.21     | -0.0327          | 99.5             | 33 568  | 11 459  | max | % |
| 19   | 495              | -1          | 495c        | 97.3        | -17.91     | 125.92  | 127.19 | 0.211    | -0.0297          | 98.0             | 33 568  | 12 461  |     | % |
| 19   | 500              | -1          | 499c        | 97.3        | -17.91     | 125.92  | 127.19 | 0.211    | -0.0297          | 98.0             | 33 568  | 12 461  |     | % |
| 22   | 510              | -1          | 510c        | 94.63       | -6.64      | 140.85  | 141.01 | 0.216    | -0.0218          | 92.7             | 34 571  | 13 469  |     | % |
| 24   | 520              | -1          | 520c        | 91.75       | 4.59       | 146.03  | 146.1  | 0.2212   | -0.0178          | 88.1             | 34 574  | 14 473  | Ym  | % |
| 26   | 530              | -1          | 530c        | 88.02       | 17.68      | 145.85  | 146.92 | 0.2277   | -0.0145          | 83.0             | 35 577  | 15 477  |     | % |
| 28   | 540              | -1          | 540c        | 83.56       | 31.64      | 141.2   | 144.7  | 0.2352   | -0.0119          | 77.3             | 36 581  | 15 479  |     | % |
| 29   | 545              | -1          | 545c        | 81.07       | 38.69      | 137.72  | 143.05 | 0.2393   | -0.0109          | 74.3             | 36 583  | 16 480  |     | % |
| 29   | 550              | -1          | 549c        | 81.07       | 38.69      | 137.72  | 143.05 | 0.2393   | -0.0109          | 74.3             | 36 583  | 16 480  |     | % |
| 30   | 555              | -1          | 554c        | 78.42       | 45.65      | 133.68  | 141.26 | 0.2436   | -0.0102          | 71.1             | 37 585  | 16 482  |     | % |
| 32   | 560              | -1          | 560c        | 72.66       | 58.88      | 124.34  | 137.58 | 0.2528   | -0.0092          | 64.6             | 38 590  | 16 483  |     | % |
| 380  | 770              | 100.0       | 0.0         | 0.0         | 0.0        | 0.0     | 0.2191 | -0.0837  | 0.0              |                  |         |         |     | % |
| Ostwald-Optimalfarben (o) von maximalem (m) $C_{AB}$ für E00, $Y_w=100$ , $Y_m=770_520$ , CIELAB komplementär% |                  |             |             |             |            |         |        |          |                  |                  |         |         |     |   |
| $i_1, \lambda_1$   | $i_2, \lambda_2$ | $L^*_{100}$ | $a^*_{100}$ | $b^*_{100}$ | $C^*_{ab}$ | $a'$    | $b'$   | $h_{ab}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code    | %       | %   |   |
| 32   | 564              | 1           | 405         | 71.27       | 62.52      | 98.78   | 116.91 | 0.2555   | -0.0287          | 57.6             | 38 592  | 16 484  | Rm  | % |
| 33   | 565              | 6           | 435         | 70.93       | 71.83      | 28.95   | 77.45  | 0.2611   | -0.0675          | 21.9             | 45 627  | 17 488  |     | % |
| 33   | 566              | 10          | 450         | 70.56       | 84.55      | -14.4   | 85.77  | 0.2687   | -0.0918          | 350.3            | -1 498c | 19 498  |     | % |
| 33   | 568              | 12          | 460         | 69.98       | 90.17      | -29.54  | 94.89  | 0.2724   | -0.1004          | 341.8            | -1 507c | 21 507  |     | % |
| 33   | 569              | 13          | 465         | 69.37       | 92.89      | -35.98  | 99.61  | 0.2744   | -0.1042          | 338.8            | -1 514c | 22 514  |     | % |
| 34   | 571              | 14          | 470         | 68.37       | 95.44      | -41.93  | 104.24 | 0.2766   | -0.1079          | 336.2            | -1 522c | 24 522  |     | % |
| 35   | 575              | 14          | 475         | 66.11       | 99.55      | -45.82  | 109.59 | 0.2807   | -0.1108          | 335.2            | -1 525c | 25 525  | Mm  | % |
| 36   | 581              | 16          | 480         | 63.17       | 102.89     | -56.56  | 117.41 | 0.2851   | -0.1184          | 331.2            | -1 538c | 27 538  |     | % |
| 39   | 595              | 17          | 485         | 55.38       | 108.0      | -71.77  | 129.67 | 0.296    | -0.1326          | 326.3            | -1 549c | 29 549  |     | % |
| -1   | 490c             | 18          | 490         | 28.02       | 85.37      | -120.26 | 147.48 | 0.3177   | -0.2165          | 305.3            | 11 459  | 33 568  | min | % |
| -1   | 495c             | 19          | 495         | 31.41       | 71.03      | -115.43 | 135.53 | 0.2953   | -0.2021          | 301.6            | 12 461  | 33 568  |     | % |
| -1   | 499c             | 19          | 500         | 31.41       | 71.03      | -115.43 | 135.53 | 0.2953   | -0.2021          | 301.6            | 12 461  | 33 568  |     | % |
| -1   | 510c             | 22          | 510         | 43.16       | 21.12      | -96.96  | 99.24  | 0.2372   | -0.1634          | 282.2            | 13 469  | 34 571  |     | % |
| -1   | 520c             | 24          | 520         | 51.68       | -12.26     | -82.78  | 83.68  | 0.2098   | -0.1431          | 261.5            | 14 473  | 34 574  | Bm  | % |
| -1   | 530c             | 26          | 530         | 59.79       | -39.13     | -69.07  | 79.38  | 0.1928   | -0.128           | 240.4            | 15 477  | 35 577  |     | % |
| -1   | 540c             | 28          | 540         | 67.12       | -57.58     | -56.56  | 80.72  | 0.1838   | -0.1168          | 224.4            | 15 479  | 36 581  |     | % |
| -1   | 545c             | 29          | 545         | 70.46       | -63.67     | -50.83  | 81.48  | 0.1816   | -0.1123          | 218.6            | 16 480  | 36 583  |     | % |
| -1   | 549c             | 29          | 550         | 70.46       | -63.67     | -50.83  | 81.48  | 0.1816   | -0.1123          | 218.6            | 16 480  | 36 583  |     | % |
| -1   | 554c             | 30          | 555         | 73.6        | -67.81     | -45.45  | 81.64  | 0.1806   | -0.1084          | 213.8            | 16 482  | 37 585  |     | % |
| -1   | 560c             | 32          | 560         | 79.25       | -70.77     | -35.73  | 79.28  | 0.1813   | -0.1019          | 206.7            | 16 483  | 38 590  |     | % |
| 380  | 770              | 100.0       | 0.0         | 0.0         | 0.0        | 0.0     | 0.2191 | -0.0837  | 0.0              |                  |         |         |     | % |

| Ostwald-Optimalfarben (o) von maximalem (m) $C_{AB}$ für E00, $Y_w=10=100$ , $Y_m=520_770$ , CIELAB-Daten         |                  |             |             |             |            |         |        |          |                  |                  |         |         |     |   |
|---|------------------|-------------|-------------|-------------|------------|---------|--------|----------|------------------|------------------|---------|---------|-----|---|
| $i_1, \lambda_1$  | $i_2, \lambda_2$ | $L^*_{100}$ | $a^*_{100}$ | $b^*_{100}$ | $C^*_{ab}$ | $a'$    | $b'$   | $h_{ab}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code    | %       | %   |   |
| 1   | 405              | 31          | 559         | 79.43       | -69.97     | -33.95  | 77.77  | 0.1818   | -0.101           | 205.8            | 15 477  | 37 589  | Cm  | % |
| 7   | 435              | 32          | 561         | 79.66       | -92.09     | -9.07   | 92.53  | 0.1701   | -0.0883          | 185.6            | 16 484  | -1 484c |     | % |
| 10  | 450              | 32          | 562         | 79.85       | -108.58    | 17.48   | 109.98 | 0.1615   | -0.0748          | 170.8            | 18 493  | -1 493c |     | % |
| 12  | 460              | 33          | 565         | 80.46       | -114.73    | 39.56   | 121.36 | 0.1586   | -0.0638          | 160.9            | 21 506  | -1 506c |     | % |
| 13  | 465              | 33          | 568         | 81.27       | -113.49    | 52.13   | 124.89 | 0.1597   | -0.0577          | 155.3            | 23 515  | -1 515c |     | % |
| 13  | 470              | 34          | 572         | 83.3        | -106.48    | 55.62   | 120.14 | 0.1645   | -0.0565          | 152.4            | 24 520  | -1 520c |     | % |
| 14  | 475              | 36          | 581         | 86.11       | -93.97     | 71.54   | 118.1  | 0.1723   | -0.0497          | 142.7            | 26 532  | -1 532c | Gm  | % |
| 16  | 480              | 40          | 604         | 91.81       | -55.72     | 101.41  | 115.71 | 0.1928   | -0.038           | 118.7            | 30 551  | -1 551c |     | % |
| 17  | 485              | -1          | 485c        | 96.74       | -15.85     | 118.68  | 119.73 | 0.2119   | -0.0326          | 97.6             | 32 564  | 11 456  |     | % |
| 18  | 490              | -1          | 490c        | 96.1        | -13.14     | 125.53  | 126.21 | 0.2131   | -0.0293          | 95.9             | 32 564  | 11 458  | max | % |
| 19  | 495              | -1          | 495c        | 95.33       | -9.88      | 131.44  | 131.81 | 0.2145   | -0.0263          | 94.3             | 33 565  | 12 460  |     | % |
| 20  | 500              | -1          | 500c        | 94.43       | -6.08      | 136.47  | 136.6  | 0.2162   | -0.0236          | 92.5             | 33 566  | 12 462  |     | % |
| 22  | 510              | -1          | 510c        | 92.16       | 3.03       | 143.93  | 143.96 | 0.2205   | -0.019           | 88.7             | 33 569  | 13 466  |     | % |
| 23  | 520              | -1          | 519c        | 90.77       | 8.29       | 146.41  | 146.64 | 0.223    | -0.0169          | 86.7             | 34 570  | 13 468  | Ym  | % |
| 25  | 530              | -1          | 529c        | 87.45       | 19.7       | 146.61  | 147.93 | 0.2287   | -0.013           | 82.3             | 34 573  | 14 470  |     | % |
| 27  | 540              | -1          | 539c        | 83.46       | 31.82      | 142.58  | 146.09 | 0.2353   | -0.0092          | 77.4             | 35 577  | 14 473  |     | % |
| 29  | 545              | -1          | 545c        | 78.83       | 44.02      | 135.72  | 142.68 | 0.2426   | -0.0052          | 72.0             | 36 582  | 15 475  |     | % |
| 29  | 550              | -1          | 549c        | 78.83       | 44.02      | 135.72  | 142.68 | 0.2426   | -0.0052          | 72.0             | 36 582  | 15 475  |     | % |
| 31  | 555              | -1          | 555c        | 73.61       | 55.53      | 126.92  | 138.53 | 0.2505   | 0.0              | 66.3             | 37 587  | 15 476  |     | % |
| 32  | 560              | 3           | 415         | 70.87       | 63.43      | 69.32   | 93.97  | 0.2562   | -0.0449          | 47.5             | 39 595  | 15 478  |     | % |
| 380   | 770              | 100.0       | 0.0         | 0.0         | 0.0        | 0.0     | 0.219  | -0.0837  | 0.0              |                  |         |         |     | % |
| Ostwald-Optimalfarben (o) von maximalem (m) $C_{AB}$ für E00, $Y_w=10=100$ , $Y_m=770_520$ , CIELAB komplementär% |                  |             |             |             |            |         |        |          |                  |                  |         |         |     |   |
| $i_1, \lambda_1$  | $i_2, \lambda_2$ | $L^*_{100}$ | $a^*_{100}$ | $b^*_{100}$ | $C^*_{ab}$ | $a'$    | $b'$   | $h_{ab}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code    | %       | %   |   |
| 31  | 559              | 1           | 405         | 72.45       | 58.84      | 95.98   | 112.58 | 0.2529   | -0.0309          | 58.4             | 37 589  | 15 477  | Rm  | % |
| 32  | 561              | 7           | 435         | 72.18       | 71.63      | 12.24   | 72.67  | 0.2603   | -0.077           | 9.6              | -1 484c | 16 484  |     | % |
| 32  | 562              | 10          | 450         | 71.95       | 79.98      | -16.73  | 81.72  | 0.2653   | -0.093           | 348.1            | -1 493c | 18 493  |     | % |
| 33  | 565              | 12          | 460         | 71.21       | 84.68      | -30.98  | 90.17  | 0.2684   | -0.101           | 339.9            | -1 506c | 21 506  |     | % |
| 33  | 568              | 13          | 465         | 70.2        | 86.97      | -37.58  | 94.74  | 0.2703   | -0.1049          | 336.6            | -1 515c | 23 515  |     | % |
| 34  | 572              | 13          | 470         | 67.48       | 91.21      | -42.27  | 100.53 | 0.2746   | -0.1083          | 335.1            | -1 520c | 24 520  |     | % |
| 36  | 581              | 14          | 475         | 63.17       | 95.86      | -53.49  | 109.78 | 0.2806   | -0.1165          | 330.8            | -1 532c | 26 532  | Mm  | % |
| 40  | 604              | 16          | 480         | 51.52       | 92.9       | -78.43  | 121.58 | 0.289    | -0.1402          | 319.8            | -1 551c | 30 551  |     | % |
| -1  | 485c             | 17          | 485         | 34.38       | 59.2       | -109.46 | 124.44 | 0.2788   | -0.1893          | 298.4            | 11 456  | 32 564  |     | % |
| -1  | 490c             | 18          | 490         | 37.42       | 46.35      | -105.27 | 115.03 | 0.2632   | -0.1795          | 293.7            | 11 458  | 32 564  | min | % |
| -1  | 495c             | 19          | 495         | 40.57       | 32.86      | -100.6  | 105.83 | 0.2486   | -0.1701          | 288.0            | 12 460  | 33 565  |     | % |
| -1  | 500c             | 20          | 500         | 43.84       | 19.01      | -95.52  | 97.39  | 0.2352   | -0.1613          | 281.2            | 12 462  | 33 566  |     | % |
| -1  | 510c             | 22          | 510         | 50.61       | -8.3       | -84.51  | 84.92  | 0.2127   | -0.1454          | 264.3            | 13 466  | 33 569  |     | % |
| -1  | 519c             | 23          | 520         | 54.06       | -21.03     | -78.76  | 81.52  | 0.2038   | -0.1383          | 255.0            | 13 468  | 34 570  | Bm  | % |
| -1  | 529c             | 25          | 530         | 60.84       | -42.55     | -67.32  | 79.65  | 0.1909   | -0.1263          | 237.7            | 14 470  | 34 573  |     | % |
| -1  | 539c             | 27          | 540         | 67.25       | -57.63     | -56.4   | 80.64  | 0.1838   | -0.1166          | 224.3            | 14 473  | 35 577  |     | % |

Siehe ähnliche Dateien: <http://130.149.60.45/~farbmetrik/VG39/VG39.HTM>  
Technische Information: <http://www.ps.bam.de> oder <http://130.149.60.45/~farbmetrik>

TUB-Registrierung: 20130201-VG39/VG39LONP.PDF /PS TUB-Material: Code=rh4ta  
Anwendung für Messung von Display-Ausgabe, keine Separation

Ostwald-Optimalfarben (o) von maximalem (m) C<sub>AB</sub> für E00, Y<sub>w,100</sub>=100, Y<sub>m</sub>=520\_770, CIELAB-Daten %  
Table with 15 columns: i1, λ1, i2, λ2, L\*100, a\*100, b\*100, C\*ab, a', b', h<sub>ab</sub>, i<sub>d</sub>, λ<sub>d</sub>, i<sub>c</sub>, λ<sub>c</sub>, Code %

Ostwald-Optimalfarben (o) von maximalem (m) C<sub>AB</sub> für E00, Y<sub>w,100</sub>=100, Y<sub>m</sub>=520\_770, CIELAB-Daten %  
Table with 15 columns: i1, λ1, i2, λ2, L\*100, a\*100, b\*100, C\*ab, a', b', h<sub>ab</sub>, i<sub>d</sub>, λ<sub>d</sub>, i<sub>c</sub>, λ<sub>c</sub>, Code %

rgb\*<sub>e,ab</sub>\* und CIE-Daten eines Elementar-Buntonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart E00  
Yxy, abc<sub>AB</sub>, ABC<sub>AB</sub>, LabC\*<sub>ab</sub>, h<sub>ab</sub>-Daten für relative Stufung des Elementarbuntons h<sub>ab</sub> von CIELAB für CIE-2-Grad Beobachter  
Elementar-Buntonkreis mit 4 Ziel-Elementar-Buntonwinkeln: h<sub>ab</sub> = 27,9, 91,3, 162,9, 267,6 von CIELAB und 16 Ziel-Buntonwinkeln:  
27,9 43,8 59,6 75,5 91,3 109,2 127,1 145,0 162,9 189,1 215,3 241,4 267,6 297,7 327,8 357,8  
CIELAB-Daten CIE-Testfarben 9 (R): 41,9 59,0 31,3, 10 (Y): 81,8 -1,7 73,1, 11 (G): 51,5 -41,4 12,6, 12 (B): 29,4 -1,9 -46,6

rgb\*<sub>e,ab</sub>\* und CIE-Daten eines Elementar-Buntonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart E00  
Yxy, abc<sub>AB</sub>, ABC<sub>AB</sub>, LabC\*<sub>ab</sub>, h<sub>ab</sub>-Daten für relative Stufung des Elementarbuntons h<sub>ab</sub> von CIELAB für CIE-10-Grad Beobachter  
Elementar-Buntonkreis mit 4 Ziel-Elementar-Buntonwinkeln: h<sub>ab</sub> = 28,5, 87,1, 159,6, 249,7 von CIELAB und 16 Ziel-Buntonwinkeln:  
28,5 43,1 57,8 72,5 87,1 105,2 123,3 141,5 159,6 182,1 204,6 227,2 249,7 284,4 319,1 353,8  
CIELAB-Daten CIE-Testfarben 9 (R): 41,2 54,3 29,5, 10 (Y): 80,2 3,6 72,6, 11 (G): 51,6 -38,8 14,4, 12 (B): 32,4 -14,8 -40,3

Table with 17 columns: no<sub>ab</sub>, x<sub>10</sub>, x<sub>10</sub>, y<sub>10</sub>, a<sub>10</sub>, b<sub>10</sub>, C<sub>AB,10</sub>, h<sub>AB,10</sub>, L\*<sub>10</sub>, a\*<sub>10</sub>, b\*<sub>10</sub>, C\*<sub>ab,10</sub>, h<sub>ab,10</sub>, rgb\*<sub>e,ab,10</sub>, Code<sub>ab,10</sub>

Table with 17 columns: no<sub>ab</sub>, x<sub>10</sub>, x<sub>10</sub>, y<sub>10</sub>, a<sub>10</sub>, b<sub>10</sub>, C<sub>AB,10</sub>, h<sub>AB,10</sub>, L\*<sub>10</sub>, a\*<sub>10</sub>, b\*<sub>10</sub>, C\*<sub>ab,10</sub>, h<sub>ab,10</sub>, rgb\*<sub>e,ab,10</sub>, Code<sub>ab,10</sub>

CIEXYZ-Daten of CIE-Testfarben 9 (R): 23,5 12,4 4,0, 10 (Y): 59,2 60,0 10,9, 11 (G): 12,4 19,7 13,9, 12 (B): 5,8 6,0 24,4  
5-stufige gleichabständige Graureihe mit Ziel-Helligkeit: L\* = 0,0, 25,0, 50,0, 75,0, 100,0  
Table with 17 columns: no, x, y, z, X, Y, Z, X<sub>0</sub>, Y<sub>0</sub>, Z<sub>0</sub>, X<sub>100</sub>, Y<sub>100</sub>, Z<sub>100</sub>, X<sub>000</sub>, Y<sub>000</sub>, Z<sub>000</sub>

CIEXYZ-Daten of CIE-Testfarben 9 (R): 21,8 11,9 4,1, 10 (Y): 58,6 57,1 10,1, 11 (G): 12,9 19,8 13,3, 12 (B): 5,8 7,2 23,7  
5-stufige gleichabständige Graureihe mit Ziel-Helligkeit: L\* = 0,0, 25,0, 50,0, 75,0, 100,0  
Table with 17 columns: no, x, y, z, X, Y, Z, X<sub>0</sub>, Y<sub>0</sub>, Z<sub>0</sub>, X<sub>100</sub>, Y<sub>100</sub>, Z<sub>100</sub>, X<sub>000</sub>, Y<sub>000</sub>, Z<sub>000</sub>