

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D50, Y <sub>w</sub> =100, Y <sub>m</sub> =520_770, CIELAB-Daten         |                                 |                   |                   |                   |                  |        |         |                 |                                 |                                 |      |  |   | % |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|-------------------|-------------------|------------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|--|---|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                         | i <sub>2</sub> , λ <sub>2</sub> | L* <sub>100</sub> | a* <sub>100</sub> | b* <sub>100</sub> | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  | % |   |
| 1 405                                                                                                                                   | 32 564                          | 80.64             | -79.12            | -32.66            | 85.6             | 0.1753 | -0.0939 | 202.4           | 17 486                          | 38 592                          | Cm   |  | % |   |
| 7 435                                                                                                                                   | 33 565                          | 80.84             | -92.99            | -16.32            | 94.41            | 0.1682 | -0.0862 | 189.9           | 18 490                          | 46 634                          |      |  | % |   |
| 10 450                                                                                                                                  | 33 566                          | 81.12             | -108.35           | 7.14              | 108.58           | 0.1604 | -0.0752 | 176.2           | 19 497                          | -1 497c                         |      |  | % |   |
| 12 460                                                                                                                                  | 33 567                          | 81.46             | -116.97           | 28.05             | 120.29           | 0.1561 | -0.0654 | 166.5           | 21 506                          | -1 506c                         |      |  | % |   |
| 13 465                                                                                                                                  | 33 568                          | 81.81             | -119.26           | 39.57             | 125.66           | 0.1552 | -0.0601 | 161.6           | 22 511                          | -1 511c                         |      |  | % |   |
| 14 470                                                                                                                                  | 34 570                          | 82.4              | -119.23           | 51.38             | 129.83           | 0.1555 | -0.0547 | 156.6           | 23 519                          | -1 519c                         |      |  | % |   |
| 15 475                                                                                                                                  | 34 573                          | 83.39             | -115.8            | 63.56             | 132.1            | 0.1579 | -0.0494 | 151.2           | 25 527                          | -1 527c                         | Gm   |  | % |   |
| 15 480                                                                                                                                  | 35 578                          | 85.46             | -107.76           | 67.11             | 126.95           | 0.1631 | -0.0484 | 148.0           | 26 531                          | -1 531c                         |      |  | % |   |
| 17 485                                                                                                                                  | 37 587                          | 88.09             | -90.84            | 90.18             | 128.01           | 0.1726 | -0.039  | 135.2           | 28 544                          | -1 544c                         |      |  | % |   |
| 18 490                                                                                                                                  | 44 620                          | 95.17             | -39.39            | 110.34            | 117.16           | 0.1986 | -0.0333 | 109.6           | 32 561                          | -1 561c                         | max  |  | % |   |
| 19 495                                                                                                                                  | -1 495c                         | 97.49             | -13.34            | 121.9             | 122.63           | 0.2105 | -0.0295 | 96.2            | 33 568                          | 12 463                          |      |  | % |   |
| 20 500                                                                                                                                  | -1 500c                         | 96.81             | -10.45            | 127.99            | 128.42           | 0.2118 | -0.0268 | 94.6            | 33 569                          | 13 466                          |      |  | % |   |
| 22 510                                                                                                                                  | -1 510c                         | 94.88             | -2.34             | 137.84            | 137.86           | 0.2153 | -0.0218 | 90.9            | 34 571                          | 14 471                          |      |  | % |   |
| 23 520                                                                                                                                  | -1 519c                         | 93.58             | 2.85              | 141.13            | 141.16           | 0.2177 | -0.0198 | 88.8            | 34 572                          | 14 473                          | Ym   |  | % |   |
| 25 530                                                                                                                                  | -1 529c                         | 90.23             | 15.24             | 146.8             | 147.59           | 0.2236 | -0.0162 | 84.0            | 35 575                          | 15 477                          |      |  | % |   |
| 27 540                                                                                                                                  | -1 539c                         | 86.01             | 29.18             | 144.12            | 147.04           | 0.2308 | -0.0132 | 78.5            | 35 579                          | 16 480                          |      |  | % |   |
| 28 545                                                                                                                                  | -1 544c                         | 83.62             | 36.35             | 141.27            | 145.87           | 0.2347 | -0.012  | 75.5            | 36 581                          | 16 481                          |      |  | % |   |
| 29 550                                                                                                                                  | -1 549c                         | 81.05             | 43.6              | 137.66            | 144.4            | 0.239  | -0.011  | 72.4            | 36 583                          | 16 483                          |      |  | % |   |
| 30 555                                                                                                                                  | -1 554c                         | 78.3              | 50.75             | 133.47            | 142.8            | 0.2434 | -0.0102 | 69.1            | 37 585                          | 16 484                          |      |  | % |   |
| 32 560                                                                                                                                  | -1 560c                         | 72.41             | 64.12             | 123.93            | 139.53           | 0.2528 | -0.0092 | 62.6            | 38 590                          | 17 486                          |      |  | % |   |
| 380                                                                                                                                     | 770                             | 100.0             | 0.0               | 0.0               | 0.0              | 0.2164 | -0.0785 | 0.0             |                                 |                                 |      |  | % |   |
| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D50, Y <sub>w</sub> =100, Y <sub>m</sub> =770_520, CIELAB komplementär% |                                 |                   |                   |                   |                  |        |         |                 |                                 |                                 |      |  |   |   |
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                         | i <sub>2</sub> , λ <sub>2</sub> | L* <sub>100</sub> | a* <sub>100</sub> | b* <sub>100</sub> | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  | % |   |
| 32 564                                                                                                                                  | 1 405                           | 71.0              | 67.41             | 105.72            | 125.38           | 0.2553 | -0.0231 | 57.4            | 38 592                          | 17 486                          | Rm   |  | % |   |
| 33 565                                                                                                                                  | 7 435                           | 70.74             | 75.66             | 26.96             | 80.32            | 0.2602 | -0.0643 | 19.6            | 46 634                          | 18 490                          |      |  | % |   |
| 33 566                                                                                                                                  | 10 450                          | 70.4              | 84.09             | -8.18             | 84.49            | 0.2653 | -0.0828 | 354.4           | -1 497c                         | 19 497                          |      |  | % |   |
| 33 567                                                                                                                                  | 12 460                          | 69.97             | 89.18             | -25.67            | 92.8             | 0.2685 | -0.0921 | 343.9           | -1 506c                         | 21 506                          |      |  | % |   |
| 33 568                                                                                                                                  | 13 465                          | 69.5              | 91.5              | -32.76            | 97.19            | 0.2702 | -0.096  | 340.2           | -1 511c                         | 22 511                          |      |  | % |   |
| 34 570                                                                                                                                  | 14 470                          | 68.72             | 93.74             | -39.06            | 101.55           | 0.272  | -0.0995 | 337.3           | -1 519c                         | 23 519                          |      |  | % |   |
| 34 573                                                                                                                                  | 15 475                          | 67.36             | 96.12             | -45.25            | 106.24           | 0.2743 | -0.1032 | 334.7           | -1 527c                         | 25 527                          | Mm   |  | % |   |
| 35 578                                                                                                                                  | 15 480                          | 64.23             | 100.99            | -50.62            | 112.97           | 0.2796 | -0.1073 | 333.3           | -1 531c                         | 26 531                          |      |  | % |   |
| 37 587                                                                                                                                  | 17 485                          | 59.67             | 103.27            | -63.42            | 121.19           | 0.285  | -0.1167 | 328.4           | -1 544c                         | 28 544                          |      |  | % |   |
| 44 620                                                                                                                                  | 18 490                          | 41.19             | 95.32             | -96.8             | 135.85           | 0.3001 | -0.1557 | 314.5           | -1 561c                         | 32 561                          | min  |  | % |   |
| -1 495c                                                                                                                                 | 19 495                          | 30.29             | 58.93             | -116.79           | 130.82           | 0.2804 | -0.1936 | 296.7           | 12 463                          | 33 568                          |      |  | % |   |
| -1 500c                                                                                                                                 | 20 500                          | 34.03             | 42.92             | -111.26           | 119.25           | 0.2595 | -0.1799 | 291.0           | 13 466                          | 33 569                          |      |  | % |   |
| -1 510c                                                                                                                                 | 22 510                          | 42.26             | 8.18              | -98.28            | 98.62            | 0.2235 | -0.1554 | 274.7           | 14 471                          | 34 571                          |      |  | % |   |
| -1 519c                                                                                                                                 | 23 520                          | 46.59             | -9.12             | -91.17            | 91.63            | 0.2091 | -0.1449 | 264.2           | 14 473                          | 34 572                          | Bm   |  | % |   |
| -1 529c                                                                                                                                 | 25 530                          | 55.28             | -39.96            | -76.64            | 86.43            | 0.1882 | -0.1275 | 242.4           | 15 477                          | 35 575                          |      |  | % |   |
| -1 539c                                                                                                                                 | 27 540                          | 63.34             | -62.09            | -62.98            | 88.44            | 0.1771 | -0.1147 | 225.4           | 16 480                          | 35 579                          |      |  | % |   |
| -1 544c                                                                                                                                 | 28 545                          | 67.02             | -69.55            | -56.7             | 89.74            | 0.1743 | -0.1096 | 219.1           | 16 481                          | 36 581                          |      |  | % |   |
| -1 549c                                                                                                                                 | 29 550                          | 70.49             | -74.83            | -50.77            | 90.42            | 0.1729 | -0.1053 | 214.1           | 16 483                          | 36 583                          |      |  | % |   |
| -1 554c                                                                                                                                 | 30 555                          | 73.73             | -78.04            | -45.21            | 90.19            | 0.1727 | -0.1015 | 210.0           | 16 484                          | 37 585                          |      |  | % |   |
| -1 560c                                                                                                                                 | 32 560                          | 79.46             | -78.96            | -35.36            | 86.52            | 0.1749 | -0.0954 | 204.1           | 17 486                          | 38 590                          |      |  | % |   |
| 380                                                                                                                                     | 770                             | 100.0             | 0.0               | 0.0               | 0.0              | 0.2164 | -0.0785 | 0.0             |                                 |                                 |      |  | % |   |

| rgb <sub>cab</sub> und CIE-Daten eines Elementar-Bunttonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart D50                                                                 |      |       |       |       |        |                 |      |      |                 |                 |      |      |      |       |                 |                   |                    |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------|--------|-----------------|------|------|-----------------|-----------------|------|------|------|-------|-----------------|-------------------|--------------------|------|------|------|------|------|------|------|
| Yxy, abc <sub>AB</sub> , ABC <sub>AB</sub> , LabC <sub>ab</sub> h <sub>ab</sub> -Daten für relative Stufung des Elementarbunttons h <sub>ab</sub> von CIELAB für CIE-2-Grad Beobachter |      |       |       |       |        |                 |      |      |                 |                 |      |      |      |       |                 |                   |                    |      |      |      |      |      |      |      |
| Elementar-Bunttonkreise mit 4-Ziel-Elementar-Bunttonwinkeln: h <sub>ab</sub> = 27.1, 88.5, 164.3, 263.9 von CIELAB und 90 Ziel-Bunttonwinkeln:                                         |      |       |       |       |        |                 |      |      |                 |                 |      |      |      |       |                 |                   |                    |      |      |      |      |      |      |      |
| 00.00                                                                                                                                                                                  | 00.1 | 00.1  | 00.1  | 00.1  | 00.1   | 00.1            | 00.1 | 00.1 | 00.1            | 00.1            | 00.1 | 00.1 | 00.1 | 00.1  | 00.1            | 00.1              | 00.1               | 00.1 | 00.1 | 00.1 | 00.1 | 00.1 | 00.1 | 00.1 |
| no.ab                                                                                                                                                                                  | Y    | x     | y     | a     | b      | c <sub>AB</sub> | A    | B    | C <sub>AB</sub> | h <sub>AB</sub> | L*   | a*   | b*   | C*    | h <sub>AB</sub> | rgb <sub>ab</sub> | Code <sub>ab</sub> |      |      |      |      |      |      |      |
| 900                                                                                                                                                                                    | 41.4 | 0.483 | 0.275 | 1.755 | -0.349 | 9.911           | 32.7 | -0.7 | 32.7            | 358.6           | 70.4 | 82.3 | -2.8 | 82.4  | 358.0           | 1.00              | 0.00               | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 901                                                                                                                                                                                    | 41.4 | 0.485 | 0.277 | 1.751 | -0.341 | 7.987           | 32.6 | -0.4 | 32.6            | 359.1           | 70.5 | 82.0 | -1.7 | 82.0  | 358.7           | 1.00              | 0.00               | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 902                                                                                                                                                                                    | 41.4 | 0.487 | 0.279 | 1.747 | -0.334 | 3.783           | 32.5 | -0.1 | 32.5            | 359.6           | 70.5 | 81.7 | -0.6 | 81.7  | 359.5           | 1.00              | 0.00               | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 903                                                                                                                                                                                    | 41.5 | 0.489 | 0.28  | 1.743 | -0.326 | 7.793           | 32.3 | 0.1  | 32.3            | 0.2             | 70.5 | 81.4 | 0.4  | 81.4  | 0.3             | 1.00              | 0.00               | 0.5  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 904                                                                                                                                                                                    | 41.5 | 0.491 | 0.282 | 1.739 | -0.318 | 0.775           | 32.2 | 0.4  | 32.2            | 0.8             | 70.5 | 81.0 | 1.6  | 81.1  | 1.1             | 1.00              | 0.00               | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 905                                                                                                                                                                                    | 41.5 | 0.494 | 0.284 | 1.735 | -0.311 | 0.771           | 32.0 | 0.7  | 32.0            | 1.4             | 70.5 | 80.7 | 2.9  | 80.8  | 2.0             | 1.00              | 0.00               | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 906                                                                                                                                                                                    | 41.5 | 0.496 | 0.286 | 1.731 | -0.302 | 0.767           | 31.9 | 1.1  | 31.9            | 2.0             | 70.5 | 80.4 | 4.1  | 80.5  | 2.9             | 1.00              | 0.00               | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 907                                                                                                                                                                                    | 41.5 | 0.498 | 0.288 | 1.727 | -0.294 | 0.764           | 31.7 | 1.4  | 31.7            | 2.6             | 70.5 | 80.0 | 5.5  | 80.2  | 3.9             | 1.00              | 0.00               | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 908                                                                                                                                                                                    | 41.6 | 0.501 | 0.29  | 1.723 | -0.286 | 0.76            | 31.5 | 1.8  | 31.6            | 3.2             | 70.6 | 79.7 | 6.8  | 80.0  | 4.9             | 1.00              | 0.00               | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 909                                                                                                                                                                                    | 41.6 | 0.503 | 0.292 | 1.719 | -0.277 | 0.757           | 31.4 | 2.1  | 31.5            | 3.9             | 70.6 | 79.3 | 8.3  | 79.8  | 5.9             | 1.00              | 0.00               | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 910                                                                                                                                                                                    | 41.6 | 0.506 | 0.295 | 1.715 | -0.269 | 0.753           | 31.2 | 2.5  | 31.3            | 4.6             | 70.6 | 79.0 | 9.8  | 79.6  | 7.0             | 1.00              | 0.00               | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 911                                                                                                                                                                                    | 41.6 | 0.508 | 0.297 | 1.711 | -0.26  | 0.75            | 31.1 | 2.8  | 31.2            | 5.3             | 70.6 | 78.7 | 11.3 | 79.5  | 8.1             | 1.00              | 0.00               | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 912                                                                                                                                                                                    | 41.6 | 0.511 | 0.299 | 1.707 | -0.251 | 0.747           | 30.9 | 3.2  | 31.1            | 6.0             | 70.6 | 78.3 | 12.9 | 79.4  | 9.3             | 1.00              | 0.00               | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 913                                                                                                                                                                                    | 41.7 | 0.514 | 0.302 | 1.703 | -0.242 | 0.744           | 30.8 | 3.6  | 31.0            | 6.7             | 70.6 | 78.0 | 14.5 | 79.3  | 10.5            | 1.00              | 0.00               | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 914                                                                                                                                                                                    | 41.7 | 0.517 | 0.304 | 1.699 | -0.233 | 0.741           | 30.6 | 4.0  | 30.9            | 7.4             | 70.6 | 77.6 | 16.2 | 79.3  | 11.8            | 1.00              | 0.00               | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 915                                                                                                                                                                                    | 41.7 | 0.52  | 0.307 | 1.694 | -0.224 | 0.738           | 30.5 | 4.4  | 30.8            | 8.2             | 70.6 | 77.2 | 18.0 | 79.3  | 13.1            | 1.00              | 0.00               | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 916                                                                                                                                                                                    | 41.7 | 0.523 | 0.309 | 1.689 | -0.215 | 0.735           | 30.3 | 4.7  | 30.7            | 8.9             | 70.6 | 76.9 | 19.8 | 79.4  | 14.4            | 1.00              | 0.00               | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 917                                                                                                                                                                                    | 41.7 | 0.526 | 0.312 | 1.686 | -0.206 | 0.733           | 30.1 | 5.1  | 30.6            | 9.7             | 70.7 | 76.5 | 21.7 | 79.6  | 15.8            | 1.00              | 0.00               | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 918                                                                                                                                                                                    | 41.7 | 0.53  | 0.315 | 1.682 | -0.196 | 0.73            | 30.0 | 5.5  | 30.5            | 10.5            | 70.7 | 76.2 | 23.6 | 79.8  | 17.2            | 1.00              | 0.00               | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 919                                                                                                                                                                                    | 41.8 | 0.533 | 0.317 | 1.678 | -0.187 | 0.728           | 29.8 | 5.9  | 30.4            | 11.2            | 70.7 | 75.8 | 25.6 | 80.1  | 18.7            | 1.00              | 0.00               | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 920                                                                                                                                                                                    | 41.8 | 0.536 | 0.32  | 1.674 | -0.178 | 0.726           | 29.7 | 6.3  | 30.3            | 12.0            | 70.7 | 75.5 | 27.7 | 80.4  | 20.1            | 1.00              | 0.00               | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 921                                                                                                                                                                                    | 41.8 | 0.539 | 0.322 | 1.672 | -0.169 | 0.725           | 29.6 | 6.6  | 30.3            | 12.7            | 70.7 | 75.3 | 29.7 | 80.9  | 21.5            | 1.00              | 0.00               | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 922                                                                                                                                                                                    | 41.8 | 0.543 | 0.325 | 1.669 | -0.161 | 0.725           | 29.5 | 7.0  | 30.3            | 13.4            | 70.7 | 75.0 | 31.7 | 81.5  | 22.9            | 1.00              | 0.00               | 0.1  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 923                                                                                                                                                                                    | 41.8 | 0.546 | 0.327 | 1.666 | -0.152 | 0.724           | 29.3 | 7.3  | 30.3            | 14.1            | 70.7 | 74.7 | 33.7 | 82.2  | 24.2            | 1.00              | 0.00               | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 924                                                                                                                                                                                    | 41.8 | 0.549 | 0.329 | 1.663 | -0.145 | 0.723           | 29.2 | 7.7  | 30.2            | 14.7            | 70.7 | 74.6 | 35.8 | 82.7  | 25.6            | 1.00              | 0.00               | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 925                                                                                                                                                                                    | 41.8 | 0.552 | 0.332 | 1.661 | -0.137 | 0.723           | 29.1 | 8.0  | 30.2            | 15.4            | 70.7 | 74.3 | 37.9 | 83.4  | 27.0            | 1.00              | 0.00               | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 926                                                                                                                                                                                    | 41.8 | 0.556 | 0.335 | 1.658 | -0.129 | 0.722           | 29.0 | 8.3  | 30.2            | 16.0            | 70.7 | 74.1 | 40.0 | 84.2  | 28.3            | 1.00              | 0.00               | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 927                                                                                                                                                                                    | 41.8 | 0.559 | 0.337 | 1.656 | -0.122 | 0.722           | 28.9 | 8.6  | 30.2            | 16.7            | 70.7 | 73.8 | 42.1 | 85.0  | 29.7            | 1.00              | 0.00               | 0.0  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 928                                                                                                                                                                                    | 41.8 | 0.562 | 0.34  | 1.653 | -0.115 | 0.721           | 28.8 | 8.9  | 30.2            | 17.3            | 70.7 | 73.6 | 44.3 | 85.9  | 31.0            | 1.00              | 0.00               | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 929                                                                                                                                                                                    | 41.8 | 0.565 | 0.342 | 1.65  | -0.108 | 0.721           | 28.7 | 9.2  | 30.1            | 17.9            | 70.7 | 73.4 | 46.4 | 86.8  | 32.3            | 1.00              | 0.02               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 930                                                                                                                                                                                    | 41.8 | 0.567 | 0.344 | 1.648 | -0.101 | 0.721           | 28.6 | 9.5  | 30.1            | 18.4            | 70.7 | 73.1 | 48.6 | 87.8  | 33.6            | 1.00              | 0.04               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 931                                                                                                                                                                                    | 41.8 | 0.57  | 0.346 | 1.645 | -0.095 | 0.72            | 28.5 | 9.8  | 30.1            | 19.0            | 70.7 | 72.9 | 50.8 | 88.8  | 34.8            | 1.00              | 0.06               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 932                                                                                                                                                                                    | 41.8 | 0.573 | 0.348 | 1.642 | -0.088 | 0.72            | 28.4 | 10.0 | 30.1            | 19.5            | 70.7 | 72.7 | 52.9 | 89.8  | 36.0            | 1.00              | 0.07               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 933                                                                                                                                                                                    | 41.8 | 0.576 | 0.351 | 1.64  | -0.082 | 0.719           | 28.3 | 10.3 | 30.1            | 20.0            | 70.7 | 72.4 | 55.1 | 91.1  | 37.2            | 1.00              | 0.09               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 934                                                                                                                                                                                    | 41.8 | 0.578 | 0.353 | 1.637 | -0.077 | 0.719           | 28.2 | 10.5 | 30.1            | 20.5            | 70.7 | 72.2 | 57.3 | 92.2  | 38.4            | 1.00              | 0.11               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 935                                                                                                                                                                                    | 41.8 | 0.58  | 0.355 | 1.635 | -0.071 | 0.718           | 28.1 | 10.8 | 30.1            | 21.0            | 70.7 | 72.0 | 59.5 | 93.4  | 39.6            | 1.00              | 0.12               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 936                                                                                                                                                                                    | 41.8 | 0.583 | 0.357 | 1.632 | -0.066 | 0.718           | 28.0 | 11.0 | 30.0            | 21.4            | 70.7 | 71.7 | 61.8 | 94.7  | 40.7            | 1.00              | 0.14               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 937                                                                                                                                                                                    | 41.9 | 0.585 | 0.359 | 1.63  | -0.061 | 0.717           | 27.8 | 11.2 | 30.0            | 21.9            | 70.8 | 71.5 | 64.0 | 96.0  | 41.8            | 1.00              | 0.16               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 938                                                                                                                                                                                    | 41.9 | 0.587 | 0.36  | 1.627 | -0.057 | 0.717           | 27.7 | 11.4 | 30.0            | 22.3            | 70.8 | 71.3 | 66.2 | 97.3  | 42.8            | 1.00              | 0.17               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 939                                                                                                                                                                                    | 41.9 | 0.589 | 0.362 | 1.625 | -0.052 | 0.716           | 27.6 | 11.6 | 30.0            | 22.7            | 70.8 | 71.1 | 68.3 | 98.4  | 43.8            | 1.00              | 0.19               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 940                                                                                                                                                                                    | 41.9 | 0.591 | 0.364 | 1.622 | -0.048 | 0.716           | 27.5 | 11.7 | 30.0            | 23.1            | 70.8 | 70.9 | 70.5 | 99.5  | 44.8            | 1.00              | 0.2                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 941                                                                                                                                                                                    | 41.9 | 0.593 | 0.366 | 1.62  | -0.044 | 0.715           | 27.5 | 11.9 | 29.9            | 23.4            | 70.8 | 70.6 | 72.7 | 101.4 | 45.8            | 1.00              | 0.22               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 942                                                                                                                                                                                    | 41.9 | 0.594 | 0.367 | 1.617 | -0.041 | 0.714           | 27.4 | 12.1 | 29.9            | 23.8            | 70.8 | 70.4 | 74.9 | 102.8 | 46.7            | 1.00              | 0.24               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 943                                                                                                                                                                                    | 41.9 | 0.596 | 0.369 | 1.615 | -0.037 | 0.713           | 27.3 | 12.2 | 29.9            | 24.1            | 70.8 | 70.2 | 77.0 | 104.2 | 47.6            | 1.00              | 0.25               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 944                                                                                                                                                                                    | 41.9 | 0.597 | 0.37  | 1.612 | -0.034 | 0.712           | 27.2 | 12.4 | 29.9            | 24.4            | 70.8 | 70.0 | 79.2 | 105.7 | 48.5            | 1.00              | 0.27               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 945                                                                                                                                                                                    | 41.9 | 0.598 | 0.371 | 1.61  | -0.031 | 0.712           | 27.1 | 12.5 | 29.8            | 24.7            | 70.8 | 69.8 | 81.3 | 107.2 | 49.3            | 1.00              | 0.29               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 946                                                                                                                                                                                    | 41.9 | 0.6   | 0.373 | 1.608 | -0.028 | 0.711           | 27.0 | 12.6 | 29.8            | 25              |      |      |      |       |                 |                   |                    |      |      |      |      |      |      |      |

*rgb\**<sub>c,ab</sub>- und CIE-Daten eines Elementar-Bunttonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart D50

$Y_{xy}, abc_{AB}, ABC_{AB}, LabC^*_{ab}h_{ab}$ -Daten für relative Stufung des Elementarbunttons  $h_{ab}$  von CIELAB für CIE-2-Grad Beobachter

Elementar-Bunttonkreis mit 4 Ziel-Elementar-Bunttonwinkeln:  $h_{ab} = 27.1, 88.5, 164.3, 263.9$  von CIELAB und 90 Ziel-Bunttonwinkeln:

| 90.0, 991, ..., 179, CIELAB-Daten CIE-Testfarben 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 17.7 15.1, 11 (G): 51.6 -41.1 11.5, 12 (B): 29.2 -5.2 -49.3 |                 |       |       |       |        |                 |       |      |                 |       |      |       |       |       |                  |                       |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|--------|-----------------|-------|------|-----------------|-------|------|-------|-------|-------|------------------|-----------------------|------------------|
| no.                                                                                                                                              | ab <sub>Y</sub> | x     | y     | a     | b      | C <sub>ab</sub> | A     | B    | C <sub>ab</sub> | L*    | a*   | b*    | C*    | ab    | rgb <sup>a</sup> | Code <sub>ab</sub>    |                  |
| 090                                                                                                                                              | 86.1            | 0.486 | 0.565 | 0.962 | -0.006 | 0.323           | -0.1  | 27.8 | 27.8            | 98.2  | 94.3 | -0.2  | 139.6 | 139.6 | 98.0             | 0.98 1.00 0.00 % Y61G |                  |
| 091                                                                                                                                              | 83.0            | 0.482 | 0.567 | 0.940 | -0.012 | 0.322           | -0.2  | 28.2 | 28.2            | 97.9  | 94.8 | -2.4  | 137.7 | 137.7 | 97.9             | 0.97 1.00 0.00 % Y62G |                  |
| 092                                                                                                                                              | 88.6            | 0.478 | 0.511 | 0.936 | -0.008 | 0.322           | -2.4  | 28.5 | 28.6            | 94.9  | 95.4 | -4.6  | 135.3 | 135.4 | 91.9             | 0.95 1.00 0.00 % Y64G |                  |
| 093                                                                                                                                              | 89.9            | 0.473 | 0.513 | 0.923 | -0.01  | 0.322           | -3.6  | 28.7 | 29.0            | 97.3  | 95.9 | -6.9  | 132.6 | 132.7 | 93.0             | 0.94 1.00 0.00 % Y65G |                  |
| 094                                                                                                                                              | 91.2            | 0.469 | 0.515 | 0.91  | -0.011 | 0.322           | -4.8  | 29.0 | 29.4            | 99.5  | 96.5 | -9.1  | 129.8 | 130.1 | 94.0             | 0.92 1.00 0.00 % Y67G |                  |
| 095                                                                                                                                              | 92.7            | 0.465 | 0.515 | 0.903 | -0.014 | 0.321           | -5.6  | 29.2 | 29.8            | 100.9 | 97.1 | -10.5 | 126.7 | 127.1 | 94.7             | 0.91 1.00 0.00 % Y68G |                  |
| 096                                                                                                                                              | 93.7            | 0.461 | 0.516 | 0.894 | -0.016 | 0.32            | -6.5  | 29.3 | 30.0            | 102.5 | 97.5 | -12.0 | 122.9 | 123.5 | 95.6             | 0.9                   | 1.00 0.00 % Y69G |
| 097                                                                                                                                              | 93.5            | 0.457 | 0.518 | 0.882 | -0.018 | 0.322           | -7.6  | 29.1 | 30.1            | 116.4 | 97.4 | -14.1 | 121.4 | 122.2 | 96.6             | 0.88 1.00 0.00 % Y11G |                  |
| 098                                                                                                                                              | 93.4            | 0.455 | 0.52  | 0.875 | -0.019 | 0.321           | -8.2  | 29.1 | 30.2            | 105.8 | 94.4 | -15.3 | 120.8 | 121.7 | 97.2             | 0.87 1.00 0.00 % Y12G |                  |
| 099                                                                                                                                              | 92.1            | 0.453 | 0.521 | 0.868 | -0.018 | 0.325           | -9.0  | 29.3 | 30.3            | 110.7 | 97.0 | -16.7 | 119.3 | 120.2 | 98.0             | 0.86 1.00 0.00 % Y13G |                  |
| 100                                                                                                                                              | 92.9            | 0.45  | 0.523 | 0.86  | -0.019 | 0.327           | -9.6  | 28.8 | 30.4            | 108.5 | 97.2 | -18.2 | 119.3 | 120.7 | 98.6             | 0.84 1.00 0.00 % Y15G |                  |
| 101                                                                                                                                              | 92.7            | 0.447 | 0.526 | 0.851 | -0.019 | 0.33            | -10.4 | 28.7 | 30.5            | 109.9 | 97.1 | -19.8 | 118.5 | 120.2 | 99.4             | 0.83 1.00 0.00 % Y16G |                  |
| 102                                                                                                                                              | 92.3            | 0.444 | 0.528 | 0.841 | -0.02  | 0.333           | -11.3 | 28.5 | 30.7            | 111.5 | 96.9 | -21.5 | 117.7 | 119.1 | 100.3            | 0.82 1.00 0.00 % Y17G |                  |
| 103                                                                                                                                              | 91.9            | 0.441 | 0.53  | 0.831 | -0.02  | 0.336           | -12.2 | 28.4 | 30.9            | 113.2 | 96.8 | -23.4 | 116.9 | 119.2 | 101.3            | 0.8                   | 1.00 0.00 % Y19G |
| 104                                                                                                                                              | 91.5            | 0.437 | 0.533 | 0.82  | -0.021 | 0.34            | -13.1 | 28.2 | 31.1            | 114.9 | 96.6 | -25.4 | 116.0 | 118.8 | 102.3            | 0.79 1.00 0.00 % Y20G |                  |
| 105                                                                                                                                              | 91.0            | 0.433 | 0.536 | 0.808 | -0.022 | 0.345           | -14.1 | 28.0 | 31.4            | 116.7 | 96.4 | -27.5 | 115.1 | 118.4 | 103.4            | 0.78 1.00 0.00 % Y21G |                  |
| 106                                                                                                                                              | 90.5            | 0.429 | 0.539 | 0.786 | -0.022 | 0.347           | -15.1 | 27.8 | 31.6            | 118.6 | 96.2 | -29.8 | 114.1 | 118.0 | 104.6            | 0.77 1.00 0.00 % Y22G |                  |
| 107                                                                                                                                              | 89.7            | 0.423 | 0.543 | 0.765 | -0.022 | 0.356           | -16.2 | 27.6 | 32.0            | 120.5 | 96.0 | -32.0 | 112.9 | 117.7 | 105.8            | 0.76 1.00 0.00 % Y23G |                  |
| 108                                                                                                                                              | 89.2            | 0.42  | 0.546 | 0.769 | -0.024 | 0.362           | -17.3 | 27.3 | 32.3            | 122.4 | 95.6 | -34.8 | 112.1 | 117.4 | 107.2            | 0.74 1.00 0.00 % Y25G |                  |
| 109                                                                                                                                              | 88.5            | 0.415 | 0.55  | 0.755 | -0.024 | 0.37            | -18.5 | 27.0 | 32.7            | 124.4 | 95.3 | -37.5 | 111.0 | 117.2 | 108.6            | 0.73 1.00 0.00 % Y26G |                  |
| 110                                                                                                                                              | 87.8            | 0.41  | 0.553 | 0.741 | -0.025 | 0.377           | -19.5 | 26.7 | 33.1            | 126.1 | 95.0 | -40.0 | 110.1 | 117.1 | 109.9            | 0.71 1.00 0.00 % Y28G |                  |
| 111                                                                                                                                              | 87.2            | 0.407 | 0.556 | 0.731 | -0.025 | 0.383           | -20.2 | 26.5 | 33.4            | 127.4 | 94   |       |       |       |                  |                       |                  |

CHEATZ-Data of CHE-Feststoffkatalys (K): 25.5 12.4 5.2, 10 (I); 50.0 66.2 5.5, 11 (G); 12.0 15.0 11.5, 12 (D); 5.2 5.5 21.2

| rgb* <sub>cab</sub> - und CIE-Daten eines Elementar-Bunttonkreises nach CIE RI-47 für Ostwald-Farben für CIE-Lichtart D50                                                                 |      |       |       |       |        |       |       |       |                 |                 |      |        |       |                  |                 |                    |                    |      |      |      |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------|--------|-------|-------|-------|-----------------|-----------------|------|--------|-------|------------------|-----------------|--------------------|--------------------|------|------|------|--|--|--|--|
| Yxy, abc <sub>AB</sub> , ABC <sub>AB</sub> , LabC* <sub>ab</sub> , h <sub>AB</sub> -Daten für relative Stufung des Elementarbunttons h <sub>AB</sub> von CIELAB für CIE-2-Grad Beobachter |      |       |       |       |        |       |       |       |                 |                 |      |        |       |                  |                 |                    |                    |      |      |      |  |  |  |  |
| Elementar-Bunttonkreis mit 4 Ziel-Elementar-Bunttonpunkten: h <sub>AB</sub> = 27.1, 88.5, 164.3, 263.9 von CIELAB und 90 Ziel-Bunttonwinkeln:                                             |      |       |       |       |        |       |       |       |                 |                 |      |        |       |                  |                 |                    |                    |      |      |      |  |  |  |  |
| 180, 181, ..., 269, CIELAB-Daten CIE-Testfarben 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 17.7 71.5, 11 (G): 51.6 -41.1 11.5, 12 (B): 29.2 -5.2 -49.3                                           |      |       |       |       |        |       |       |       |                 |                 |      |        |       |                  |                 |                    |                    |      |      |      |  |  |  |  |
| no.ab                                                                                                                                                                                     | Y    | x     | y     | a     | b      | c     | A     | B     | C <sub>AB</sub> | h <sub>AB</sub> | L*   | a*     | b*    | C* <sub>ab</sub> | h <sub>AB</sub> | rgb* <sub>ab</sub> | Code <sub>ab</sub> |      |      |      |  |  |  |  |
| 180                                                                                                                                                                                       | 58.5 | 0.183 | 0.449 | 0.401 | -0.326 | 0.557 | -32.6 | 0.1   | 32.6            | 179.6           | 81.0 | -104.4 | 0.5   | 104.4            | 179.7           | 0.00               | 1.00               | 0.31 | 0.31 | G15B |  |  |  |  |
| 181                                                                                                                                                                                       | 58.5 | 0.182 | 0.443 | 0.417 | -0.337 | 0.552 | -32.3 | -0.4  | 32.3            | 180.7           | 81.0 | -103.3 | -1.2  | 103.3            | 180.6           | 0.00               | 1.00               | 0.33 | 0.33 | G16B |  |  |  |  |
| 182                                                                                                                                                                                       | 58.4 | 0.181 | 0.437 | 0.415 | -0.347 | 0.548 | -32.0 | -1.0  | 32.0            | 181.8           | 80.9 | -102.2 | -2.9  | 102.2            | 181.6           | 0.00               | 1.00               | 0.35 | 0.35 | G17B |  |  |  |  |
| 183                                                                                                                                                                                       | 58.4 | 0.181 | 0.431 | 0.42  | -0.358 | 0.544 | -31.7 | -1.6  | 31.8            | 183.0           | 80.9 | -101.1 | -4.7  | 101.2            | 182.6           | 0.00               | 1.00               | 0.37 | 0.37 | G18B |  |  |  |  |
| 184                                                                                                                                                                                       | 58.3 | 0.18  | 0.425 | 0.424 | -0.369 | 0.541 | -31.5 | -2.3  | 31.5            | 184.2           | 80.9 | -99.9  | -6.4  | 100.1            | 183.6           | 0.00               | 1.00               | 0.39 | 0.39 | G19B |  |  |  |  |
| 185                                                                                                                                                                                       | 58.3 | 0.18  | 0.419 | 0.429 | -0.38  | 0.537 | -31.2 | -2.9  | 31.3            | 185.4           | 80.9 | -98.7  | -8.1  | 99.1             | 184.7           | 0.00               | 1.00               | 0.41 | 0.41 | G20B |  |  |  |  |
| 186                                                                                                                                                                                       | 58.3 | 0.179 | 0.414 | 0.433 | -0.391 | 0.534 | -30.9 | -3.6  | 31.1            | 186.6           | 80.9 | -97.6  | -9.8  | 98.1             | 185.7           | 0.00               | 1.00               | 0.43 | 0.43 | G21B |  |  |  |  |
| 187                                                                                                                                                                                       | 58.2 | 0.179 | 0.408 | 0.438 | -0.403 | 0.53  | -30.6 | -4.2  | 30.9            | 187.9           | 80.9 | -96.5  | -11.5 | 97.1             | 186.8           | 0.00               | 1.00               | 0.45 | 0.45 | G22B |  |  |  |  |
| 188                                                                                                                                                                                       | 58.2 | 0.178 | 0.403 | 0.443 | -0.414 | 0.527 | -30.3 | -4.8  | 30.7            | 189.0           | 80.8 | -95.3  | -13.2 | 96.1             | 187.8           | 0.00               | 1.00               | 0.47 | 0.47 | G23B |  |  |  |  |
| 189                                                                                                                                                                                       | 58.2 | 0.178 | 0.397 | 0.448 | -0.425 | 0.525 | -30.0 | -5.5  | 30.5            | 190.5           | 80.8 | -94.1  | -14.8 | 95.2             | 188.9           | 0.00               | 1.00               | 0.49 | 0.49 | G24B |  |  |  |  |
| 190                                                                                                                                                                                       | 58.1 | 0.177 | 0.392 | 0.452 | -0.437 | 0.522 | -29.7 | -6.2  | 30.3            | 191.8           | 80.8 | -92.9  | -16.3 | 94.3             | 190.0           | 0.00               | 1.00               | 0.51 | 0.51 | G25B |  |  |  |  |
| 191                                                                                                                                                                                       | 58.1 | 0.177 | 0.387 | 0.458 | -0.449 | 0.519 | -29.4 | -6.9  | 30.2            | 193.2           | 80.8 | -91.6  | -18.0 | 93.3             | 191.1           | 0.00               | 1.00               | 0.53 | 0.53 | G26B |  |  |  |  |
| 192                                                                                                                                                                                       | 58.1 | 0.177 | 0.382 | 0.464 | -0.46  | 0.517 | -29.0 | -7.6  | 30.0            | 194.6           | 80.8 | -90.2  | -19.6 | 92.4             | 192.2           | 0.00               | 1.00               | 0.55 | 0.55 | G27B |  |  |  |  |
| 193                                                                                                                                                                                       | 58.1 | 0.177 | 0.377 | 0.469 | -0.472 | 0.514 | -28.7 | -8.2  | 29.9            | 196.0           | 80.8 | -89.0  | -21.2 | 91.5             | 193.4           | 0.00               | 1.00               | 0.57 | 0.57 | G28B |  |  |  |  |
| 194                                                                                                                                                                                       | 58.1 | 0.176 | 0.372 | 0.474 | -0.483 | 0.512 | -28.4 | -8.9  | 29.8            | 197.4           | 80.8 | -87.7  | -22.7 | 90.6             | 194.5           | 0.00               | 1.00               | 0.59 | 0.59 | G29B |  |  |  |  |
| 195                                                                                                                                                                                       | 58.1 | 0.176 | 0.367 | 0.48  | -0.494 | 0.511 | -28.1 | -9.5  | 29.7            | 198.8           | 80.8 | -86.5  | -24.1 | 89.8             | 195.5           | 0.00               | 1.00               | 0.61 | 0.61 | G30B |  |  |  |  |
| 196                                                                                                                                                                                       | 58.1 | 0.176 | 0.363 | 0.485 | -0.505 | 0.51  | -27.8 | -10.2 | 29.6            | 200.1           | 80.8 | -85.3  | -25.5 | 89.0             | 196.6           | 0.00               | 1.00               | 0.63 | 0.63 | G31B |  |  |  |  |
| 197                                                                                                                                                                                       | 58.0 | 0.176 | 0.359 | 0.49  | -0.516 | 0.509 | -27.5 | -10.8 | 29.5            | 201.4           | 80.7 | -84.1  | -26.8 | 88.3             | 197.6           | 0.00               | 1.00               | 0.65 | 0.65 | G32B |  |  |  |  |
| 198                                                                                                                                                                                       | 58.0 | 0.176 | 0.355 | 0.495 | -0.526 | 0.508 | -27.2 | -11.3 | 29.5            | 202.6           | 80.7 | -83.1  | -28.0 | 87.7             | 198.6           | 0.00               | 1.00               | 0.67 | 0.67 | G33B |  |  |  |  |
| 199                                                                                                                                                                                       | 58.0 | 0.175 | 0.352 | 0.499 | -0.535 | 0.508 | -26.9 | -11.9 | 29.4            | 203.8           | 80.7 | -82.0  | -29.2 | 87.1             | 199.6           | 0.00               | 1.00               | 0.69 | 0.69 | G34B |  |  |  |  |
| 200                                                                                                                                                                                       | 57.9 | 0.175 | 0.348 | 0.503 | -0.544 | 0.508 | -26.6 | -12.4 | 29.4            | 205.0           | 80.7 | -81.1  | -30.3 | 86.6             | 200.5           | 0.00               | 1.00               | 0.71 | 0.71 | G35B |  |  |  |  |
| 201                                                                                                                                                                                       | 57.9 | 0.175 | 0.345 | 0.507 | -0.553 | 0.508 | -26.4 | -12.9 | 29.4            | 206.0           | 80.6 | -80.2  | -31.3 | 86.1             | 201.3           | 0.00               | 1.00               | 0.73 | 0.73 | G36B |  |  |  |  |
| 202                                                                                                                                                                                       | 57.8 | 0.175 | 0.343 | 0.511 | -0.561 | 0.508 | -26.2 | -13.3 | 29.4            | 207.0           | 80.6 | -79.4  | -32.2 | 85.7             | 202.1           | 0.00               | 1.00               | 0.75 | 0.75 | G37B |  |  |  |  |
| 203                                                                                                                                                                                       | 57.8 | 0.174 | 0.338 | 0.516 | -0.576 | 0.511 | -25.8 | -14.2 | 29.4            | 208.0           | 80.5 | -78.2  | -33.4 | 85.3             | 203.0           | 0.00               | 1.00               | 0.77 | 0.77 | G38B |  |  |  |  |
| 204                                                                                                                                                                                       | 56.0 | 0.171 | 0.335 | 0.51  | -0.589 | 0.522 | -25.4 | -14.5 | 29.3            | 209.7           | 79.6 | -78.8  | -35.1 | 86.3             | 204.0           | 0.00               | 1.00               | 0.79 | 0.79 | G39B |  |  |  |  |
| 205                                                                                                                                                                                       | 54.4 | 0.167 | 0.331 | 0.506 | -0.605 | 0.534 | -24.9 | -15.0 | 29.1            | 211.0           | 78.7 | -78.9  | -36.6 | 87.0             | 204.9           | 0.00               | 1.00               | 0.81 | 0.81 | G40B |  |  |  |  |
| 206                                                                                                                                                                                       | 52.9 | 0.164 | 0.326 | 0.503 | -0.623 | 0.546 | -24.3 | -15.5 | 28.9            | 212.4           | 77.8 | -78.8  | -38.2 | 87.6             | 205.8           | 0.00               | 1.00               | 0.83 | 0.83 | G41B |  |  |  |  |
| 207                                                                                                                                                                                       | 51.2 | 0.16  | 0.321 | 0.499 | -0.643 | 0.56  | -23.8 | -16.0 | 28.7            | 214.0           | 76.8 | -78.7  | -39.9 | 88.2             | 206.8           | 0.00               | 1.00               | 0.85 | 0.85 | G42B |  |  |  |  |
| 208                                                                                                                                                                                       | 49.5 | 0.157 | 0.316 | 0.496 | -0.665 | 0.575 | -23.1 | -16.6 | 28.5            | 215.6           | 75.8 | -78.5  | -41.6 | 88.9             | 207.9           | 0.00               | 1.00               | 0.87 | 0.87 | G43B |  |  |  |  |
| 209                                                                                                                                                                                       | 47.9 | 0.153 | 0.311 | 0.493 | -0.687 | 0.591 | -22.5 | -17.1 | 28.3            | 217.2           | 74.7 | -78.3  | -43.4 | 89.5             | 208.9           | 0.00               | 1.00               | 0.89 | 0.89 | G44B |  |  |  |  |
| 210                                                                                                                                                                                       | 46.4 | 0.15  | 0.306 | 0.49  | -0.71  | 0.607 | -21.9 | -17.6 | 28.1            | 218.7           | 73.8 | -78.0  | -45.0 | 90.1             | 210.0           | 0.00               | 1.00               | 0.91 | 0.91 | G45B |  |  |  |  |
| 211                                                                                                                                                                                       | 44.9 | 0.147 | 0.301 | 0.489 | -0.732 | 0.622 | -21.3 | -18.1 | 28.0            | 220.2           | 72.8 | -77.5  | -46.6 | 90.4             | 211.0           | 0.00               | 1.00               | 0.93 | 0.93 | G46B |  |  |  |  |
| 212                                                                                                                                                                                       | 43.7 | 0.145 | 0.296 | 0.489 | -0.753 | 0.636 | -20.7 | -18.5 | 27.8            | 221.7           | 72.0 | -76.8  | -48.0 | 90.6             | 212.0           | 0.00               | 1.00               | 0.95 | 0.95 | G47B |  |  |  |  |
| 213                                                                                                                                                                                       | 42.6 | 0.143 | 0.292 | 0.49  | -0.772 | 0.648 | -20.2 | -18.8 | 27.6            | 223.0           | 71.3 | -75.9  | -49.3 | 90.5             | 213.0           | 0.00               | 1.00               | 0.97 | 0.97 | G48B |  |  |  |  |
| 214                                                                                                                                                                                       | 41.6 | 0.141 | 0.288 | 0.492 | -0.791 | 0.66  | -19.6 | -19.2 | 27.4            | 224.3           | 70.6 | -74.9  | -50.5 | 90.4             | 213.9           | 0.00               | 1.00               | 0.99 | 0.99 | G49B |  |  |  |  |
| 215                                                                                                                                                                                       | 40.6 | 0.14  | 0.284 | 0.493 | -0.81  | 0.672 | -19.1 | -19.5 | 27.3            | 225.5           | 69.9 | -74.0  | -51.7 | 90.3             | 214.9           | 0.00               | 0.98               | 1.00 | 0.98 | G50B |  |  |  |  |
| 216                                                                                                                                                                                       | 39.6 | 0.138 | 0.28  | 0.495 | -0.829 | 0.685 | -18.6 | -19.8 | 27.2            | 226.8           | 69.2 | -73.1  | -52.9 | 90.2             | 215.8           | 0.00               | 0.96               | 1.00 | 0.96 | G51B |  |  |  |  |
| 217                                                                                                                                                                                       | 38.7 | 0.137 | 0.275 | 0.497 | -0.85  | 0.698 | -18.0 | -20.1 | 27.0            | 228.1           | 68.5 | -72.1  | -54.0 | 90.1             | 216.8           | 0.00               | 0.94               | 1.00 | 0.95 | G52B |  |  |  |  |
| 218                                                                                                                                                                                       | 37.7 | 0.136 | 0.271 | 0.5   | -0.871 | 0.713 | -17.5 | -20.4 | 26.9            | 229.4           | 67.8 | -70.9  | -55.2 | 89.9             | 217.9           | 0.00               | 0.92               | 1.00 | 0.93 | G53B |  |  |  |  |
| 219                                                                                                                                                                                       | 36.8 | 0.134 | 0.267 | 0.503 | -0.893 | 0.728 | -16.9 | -20.7 | 26.8            | 230.7           | 67.1 | -69.7  | -56.4 | 89.7             | 218.9           | 0.00               | 0.9                | 1.00 | 0.92 | G54B |  |  |  |  |
| 220                                                                                                                                                                                       | 36.1 | 0.133 | 0.264 | 0.505 | -0.91  | 0.739 | -16.5 | -20.9 | 26.7            | 232.1           | 66.6 | -68.9  | -57.3 | 89.7             | 219.7           | 0.00               | 0.88               | 1.00 | 0.90 | G55B |  |  |  |  |
| 221                                                                                                                                                                                       | 35.5 | 0.132 | 0.261 | 0.507 | -0.926 | 0.751 | -16.2 | -21.1 | 26.6            | 233.6           | 66.1 | -68.1  | -58.1 | 89.6             | 220.4           | 0.00               | 0.86               | 1.00 | 0.90 | G56B |  |  |  |  |
| 222                                                                                                                                                                                       | 34.8 | 0.131 | 0.258 | 0.51  | -0.944 | 0.763 | -15.8 | -21.4 | 26.6            | 235.5           | 65.6 | -67.1  | -59.0 | 89.4             | 221.3           | 0.00               | 0.84               | 1.00 | 0.90 | G57B |  |  |  |  |
| 223                                                                                                                                                                                       | 34.1 | 0.131 | 0.254 | 0.514 | -0.964 | 0.777 | -15.3 | -21.6 | 26.5            | 238.4           | 65.0 | -66.0  | -60.0 | 89.2             | 222.2           | 0.00               | 0.82               | 1.00 | 0.90 | G58B |  |  |  |  |
| 224                                                                                                                                                                                       | 33.3 | 0.13  | 0.25  | 0.519 | -0.987 | 0.794 | -14.8 | -21.9 | 26.4            | 239.9           | 64.4 | -64.6  | -61.1 | 88.9             | 223.4           | 0.00               | 0.8                | 1.00 | 0.90 | G59B |  |  |  |  |
| 225                                                                                                                                                                                       | 32.4 | 0.129 | 0.246 | 0.525 | -1.015 | 0.813 | -14.2 | -22.2 | 26.3            | 243.3           | 63.6 | -62.8  | -62.4 | 88.6             | 224.7           | 0.00               | 0.78               | 1.00 | 0.90 | G60B |  |  |  |  |
| 226                                                                                                                                                                                       | 31.7 | 0.128 | 0.242 | 0.53  | -1.036 | 0.828 | -13.7 | -22.4 | 26.3            | 238.4           | 63.1 | -61.5  | -63.3 | 88.3             | 225.8           | 0.00               | 0.76               | 1.00 | 0.90 | G61B |  |  |  |  |
| 227                                                                                                                                                                                       | 31.2 | 0.128 | 0.24  | 0.534 | -1.052 | 0.841 | -13.2 | -22.5 | 26.2            | 239.9           | 62.7 | -60.5  | -64.0 | 88.1             | 226.8           | 0.00               | 0.74               | 1.00 | 0.90 | G62B |  |  |  |  |
| 228                                                                                                                                                                                       | 30.7 | 0.127 | 0.237 | 0.538 | -1.068 | 0.852 | -12.6 | -22.7 | 26.2            | 240.9           | 62.3 | -59.5  | -64.7 | 87.9             | 227.4           | 0.00               | 0.72               | 1.00 | 0.90 | G63B |  |  |  |  |
| 229                                                                                                                                                                                       | 30.2 | 0.127 | 0.234 | 0.543 | -1.086 | 0.865 | -12.2 | -22.8 | 26.1            | 240.8           | 61.8 | -58.4  | -65.6 | 87.7             | 228.2           | 0.00               | 0.7                | 1.00 | 0.90 | G64B |  |  |  |  |
| 230                                                                                                                                                                                       | 29.7 | 0.127 | 0.232 | 0.547 | -1.104 | 0.879 | -12.3 | -23.0 | 26.1            | 241.7           | 61.4 | -57.3  | -66.2 | 87.5             | 229.1           | 0.00               | 0.68               | 1.00 | 0.90 | G65B |  |  |  |  |
| 231                                                                                                                                                                                       | 29.2 | 0.126 | 0.229 | 0.552 | -1.123 | 0.893 | -12.0 | -23.2 | 26.1            | 242.6           | 61.0 | -56.1  | -66.9 | 87.3             | 230.0           | 0.00               | 0.66               | 1.00 | 0.   |      |  |  |  |  |

**rgb<sub>cab</sub>** und CIE-Daten eines Elementar-Bunttonkreises nach CIE RI-47 für Ostwald-Farben für CIE-Lichtart D50

**X<sub>xy</sub>, abc<sub>AB</sub>, ABC<sub>AB</sub>, LabC<sub>ab</sub><sub>hAB</sub>**-Daten zu relative Stufung des Elementarbunttons **h<sub>AB</sub>** von CIELAB für CIE-2-Grad Beobachter

**Elementar-Bunttonkreise mit 4 Elementar-Bunttonwinkeln: h<sub>AB</sub> = 27.1, 88.5, 164.3, 263.9 von CIELAB und 90 Ziel-Bunttonwinkeln:**

**270, 271, ..., 360, CIELAB-Daten CIE-Testfarben 9 (R): 41.8 61.9 31.7, 10 (Y): 81.6 17.7 71.5, 11 (G): 51.6 -41.1 11.5, 12 (B): 29.2 -5.2 -49.3**

|     |      |   |       |       |       |        |        |      |       |      |       |      |       |        |       |       |      |      |      |        |
|-----|------|---|-------|-------|-------|--------|--------|------|-------|------|-------|------|-------|--------|-------|-------|------|------|------|--------|
| 270 | 13.9 | x | 0.124 | 0.128 | 0.964 | -2.321 | 1.991  | 0.0  | -27.8 | 27.8 | 270.0 | 44.2 | 0.0   | -95.1  | 95.1  | 270.0 | 0.09 | 0.00 | 1.00 | % B04R |
| 271 | 13.7 | x | 0.124 | 0.126 | 0.982 | -2.365 | 0.935  | 0.2  | -27.7 | 27.9 | 270.9 | 43.8 | 1.5   | -95.7  | 95.7  | 270.9 | 0.11 | 0.00 | 1.00 | % B05R |
| 272 | 13.4 | x | 0.124 | 0.124 | 1.0   | -2.41  | 0.081  | 0.4  | -28.0 | 28.0 | 271.0 | 43.4 | 3.1   | -96.3  | 96.4  | 271.9 | 0.13 | 0.00 | 1.00 | % B06R |
| 273 | 13.1 | x | 0.124 | 0.122 | 1.021 | -2.459 | 0.213  | 0.7  | -28.0 | 28.0 | 271.5 | 43.4 | 4.9   | -97.0  | 97.1  | 272.8 | 0.14 | 0.00 | 1.00 | % B07R |
| 274 | 12.8 | x | 0.125 | 0.12  | 1.043 | -2.512 | 0.2183 | 1.0  | -28.1 | 28.1 | 272.0 | 42.6 | 6.7   | -97.7  | 97.9  | 273.9 | 0.16 | 0.00 | 1.00 | % B08R |
| 275 | 12.5 | x | 0.125 | 0.117 | 1.067 | -2.569 | 0.242  | 1.3  | -28.2 | 28.2 | 272.6 | 42.1 | 8.6   | -98.4  | 98.8  | 275.0 | 0.17 | 0.00 | 1.00 | % B08R |
| 276 | 12.2 | x | 0.126 | 0.115 | 1.093 | -2.632 | 0.395  | 1.5  | -28.3 | 28.3 | 273.2 | 41.6 | 10.6  | -99.2  | 99.8  | 276.1 | 0.19 | 0.00 | 1.00 | % B09R |
| 277 | 9.9  | x | 0.126 | 0.112 | 1.221 | -2.698 | 0.2373 | 1.8  | -28.3 | 28.4 | 273.7 | 41.1 | 12.7  | -100.0 | 100.0 | 277.2 | 0.21 | 0.00 | 1.00 | % B10R |
| 278 | 11.6 | x | 0.126 | 0.11  | 1.357 | -2.744 | 0.165  | 2.1  | -28.4 | 28.5 | 274.3 | 40.6 | 14.8  | -100.0 | 101.9 | 278.3 | 0.22 | 0.00 | 1.00 | % B11R |
| 279 | 11.3 | x | 0.127 | 0.107 | 1.481 | -2.84  | 0.25   | 2.4  | -28.4 | 28.6 | 274.9 | 40.1 | 16.9  | -100.1 | 103.0 | 279.4 | 0.24 | 0.00 | 1.00 | % B12R |
| 280 | 11.0 | x | 0.127 | 0.105 | 1.214 | -2.917 | 0.2599 | 2.7  | -28.5 | 28.6 | 275.5 | 39.6 | 19.1  | -102.4 | 104.2 | 280.5 | 0.26 | 0.00 | 1.00 | % B13R |
| 281 | 10.7 | x | 0.128 | 0.102 | 1.248 | -2.998 | 0.2683 | 3.0  | -28.6 | 28.7 | 276.0 | 39.1 | 21.3  | -103.2 | 105.4 | 281.6 | 0.27 | 0.00 | 1.00 | % B13R |
| 282 | 10.4 | x | 0.128 | 0.1   | 1.284 | -3.082 | 0.277  | 3.3  | -28.6 | 28.8 | 276.6 | 38.5 | 23.5  | -104.1 | 106.7 | 282.7 | 0.29 | 0.00 | 1.00 | % B14R |
| 283 | 10.1 | x | 0.128 | 0.097 | 1.321 | -3.169 | 0.2861 | 3.6  | -28.7 | 28.9 | 277.1 | 38.0 | 25.7  | -104.9 | 108.0 | 283.8 | 0.3  | 0.00 | 1.00 | % B15R |
| 284 | 9.8  | x | 0.129 | 0.095 | 1.359 | -3.259 | 0.2955 | 3.8  | -28.8 | 29.0 | 277.6 | 37.5 | 28.0  | -105.7 | 109.4 | 284.8 | 0.32 | 0.00 | 1.00 | % B16R |
| 285 | 9.5  | x | 0.129 | 0.092 | 1.399 | -3.352 | 0.3053 | 4.1  | -28.8 | 29.1 | 278.1 | 37.0 | 30.2  | -106.5 | 110.7 | 285.8 | 0.34 | 0.00 | 1.00 | % B17R |
| 286 | 9.2  | x | 0.13  | 0.09  | 1.44  | -3.447 | 0.3154 | 4.4  | -28.9 | 29.2 | 278.6 | 36.5 | 32.4  | -107.3 | 112.1 | 286.7 | 0.35 | 0.00 | 1.00 | % B17R |
| 287 | 9.0  | x | 0.13  | 0.088 | 1.482 | -3.545 | 0.3257 | 4.6  | -28.9 | 29.3 | 279.1 | 36.0 | 34.5  | -108.1 | 113.5 | 287.7 | 0.37 | 0.00 | 1.00 | % B18R |
| 288 | 8.7  | x | 0.131 | 0.085 | 1.525 | -3.645 | 0.363  | 4.9  | -29.0 | 29.4 | 279.6 | 35.5 | 36.6  | -108.9 | 114.9 | 288.6 | 0.39 | 0.00 | 1.00 | % B19R |
| 289 | 8.5  | x | 0.131 | 0.083 | 1.569 | -3.747 | 0.347  | 5.1  | -29.0 | 29.5 | 280.0 | 35.0 | 38.7  | -109.7 | 116.3 | 289.4 | 0.4  | 0.00 | 1.00 | % B20R |
| 290 | 8.2  | x | 0.131 | 0.081 | 1.613 | -3.849 | 0.3579 | 5.3  | -29.1 | 29.5 | 280.4 | 34.5 | 40.7  | -110.4 | 117.7 | 290.2 | 0.42 | 0.00 | 1.00 | % B21R |
| 291 | 8.0  | x | 0.132 | 0.079 | 1.657 | -3.952 | 0.3688 | 5.5  | -29.1 | 29.6 | 280.8 | 34.0 | 42.7  | -111.2 | 119.1 | 291.0 | 0.43 | 0.00 | 1.00 | % B22R |
| 292 | 7.4  | x | 0.13  | 0.074 | 1.738 | -4.241 | 0.3987 | 5.7  | -29.2 | 29.8 | 281.1 | 32.8 | 45.7  | -113.1 | 122.0 | 292.0 | 0.45 | 0.00 | 1.00 | % B22R |
| 293 | 6.9  | x | 0.128 | 0.07  | 1.877 | -4.529 | 0.449  | 5.9  | -29.3 | 30.1 | 281.7 | 31.7 | 48.6  | -114.9 | 124.8 | 293.0 | 0.46 | 0.00 | 1.00 | % B23R |
| 294 | 6.6  | x | 0.127 | 0.067 | 1.992 | -4.77  | 0.536  | 6.1  | -29.3 | 30.0 | 282.4 | 30.8 | 50.9  | -116.1 | 126.8 | 294.0 | 0.48 | 0.00 | 1.00 | % B24R |
| 295 | 6.3  | x | 0.128 | 0.065 | 1.966 | -4.931 | 0.479  | 6.3  | -29.3 | 30.0 | 282.2 | 30.3 | 53.5  | -116.9 | 128.6 | 294.6 | 0.5  | 0.00 | 1.00 | % B25R |
| 296 | 6.3  | x | 0.131 | 0.064 | 2.038 | -4.982 | 0.475  | 6.7  | -29.3 | 30.1 | 283.0 | 30.1 | 56.4  | -117.1 | 130.0 | 295.7 | 0.52 | 0.00 | 1.00 | % B26R |
| 297 | 6.3  | x | 0.136 | 0.064 | 2.104 | -4.912 | 0.4721 | 7.2  | -29.2 | 30.1 | 283.9 | 30.3 | 59.3  | -116.6 | 130.9 | 296.9 | 0.53 | 0.00 | 1.00 | % B26R |
| 298 | 6.5  | x | 0.141 | 0.065 | 2.143 | -4.813 | 0.435  | 7.6  | -29.1 | 30.1 | 284.7 | 30.6 | 61.3  | -116.0 | 131.3 | 297.8 | 0.55 | 0.00 | 1.00 | % B27R |
| 299 | 6.6  | x | 0.146 | 0.066 | 2.219 | -4.703 | 0.439  | 8.0  | -29.0 | 30.1 | 285.5 | 31.0 | 63.3  | -115.4 | 131.6 | 298.7 | 0.56 | 0.00 | 1.00 | % B28R |
| 300 | 6.8  | x | 0.151 | 0.068 | 2.281 | -4.584 | 0.435  | 8.5  | -29.0 | 30.2 | 286.2 | 31.3 | 65.4  | -114.7 | 132.0 | 299.7 | 0.58 | 0.00 | 1.00 | % B29R |
| 301 | 7.9  | x | 0.156 | 0.069 | 2.256 | -4.457 | 0.4324 | 9.0  | -28.9 | 30.3 | 287.3 | 31.8 | 67.5  | -113.9 | 132.4 | 300.8 | 0.6  | 0.00 | 1.00 | % B30R |
| 302 | 7.7  | x | 0.162 | 0.07  | 2.317 | -4.349 | 0.438  | 9.5  | -28.7 | 30.4 | 288.4 | 32.4 | 69.6  | -113.0 | 132.9 | 301.6 | 0.61 | 0.00 | 1.00 | % B30R |
| 303 | 7.4  | x | 0.168 | 0.072 | 2.328 | -4.184 | 0.488  | 10.1 | -28.7 | 30.4 | 289.4 | 32.8 | 71.8  | -112.0 | 133.1 | 302.6 | 0.63 | 0.00 | 1.00 | % B31R |
| 304 | 7.7  | x | 0.175 | 0.074 | 2.361 | -4.041 | 0.366  | 10.7 | -28.5 | 30.5 | 290.6 | 33.3 | 74.0  | -111.0 | 133.4 | 303.6 | 0.65 | 0.00 | 1.00 | % B32R |
| 305 | 7.9  | x | 0.182 | 0.076 | 2.393 | -3.896 | 0.384  | 11.4 | -28.4 | 30.6 | 291.8 | 33.9 | 76.1  | -109.9 | 133.7 | 304.7 | 0.66 | 0.00 | 1.00 | % B33R |
| 306 | 8.2  | x | 0.189 | 0.078 | 2.422 | -3.75  | 0.378  | 12.0 | -28.3 | 30.8 | 293.0 | 34.5 | 78.3  | -108.8 | 134.1 | 305.7 | 0.68 | 0.00 | 1.00 | % B34R |
| 307 | 8.6  | x | 0.196 | 0.08  | 2.449 | -3.604 | 0.3595 | 12.7 | -28.1 | 30.9 | 294.4 | 35.2 | 80.4  | -107.6 | 134.4 | 306.7 | 0.69 | 0.00 | 1.00 | % B34R |
| 308 | 8.9  | x | 0.204 | 0.082 | 2.474 | -3.458 | 0.3473 | 13.5 | -27.8 | 31.1 | 295.7 | 35.9 | 82.6  | -106.3 | 134.6 | 307.8 | 0.71 | 0.00 | 1.00 | % B35R |
| 309 | 9.3  | x | 0.211 | 0.084 | 2.497 | -3.313 | 0.354  | 14.3 | -27.8 | 31.3 | 297.1 | 36.6 | 84.7  | -105.0 | 134.9 | 308.8 | 0.73 | 0.00 | 1.00 | % B36R |
| 310 | 9.8  | x | 0.217 | 0.087 | 2.517 | -3.171 | 0.248  | 15.0 | -27.7 | 31.4 | 298.4 | 37.3 | 86.8  | -103.9 | 135.2 | 309.8 | 0.75 | 0.00 | 1.00 | % B37R |
| 311 | 10.1 | x | 0.227 | 0.089 | 2.534 | -3.032 | 0.125  | 16.0 | -27.5 | 31.8 | 300.1 | 38.1 | 88.7  | -102.2 | 135.4 | 310.9 | 0.76 | 0.00 | 1.00 | % B38R |
| 312 | 10.6 | x | 0.236 | 0.092 | 2.548 | -2.896 | 0.316  | 16.8 | -27.3 | 32.1 | 301.6 | 38.9 | 90.6  | -100.7 | 135.5 | 311.9 | 0.78 | 0.00 | 1.00 | % B39R |
| 313 | 11.1 | x | 0.244 | 0.095 | 2.559 | -2.764 | 0.291  | 17.7 | -27.1 | 32.4 | 303.2 | 39.8 | 92.5  | -99.2  | 135.7 | 312.9 | 0.79 | 0.00 | 1.00 | % B39R |
| 314 | 11.6 | x | 0.252 | 0.098 | 2.567 | -2.637 | 0.289  | 18.7 | -26.9 | 32.8 | 304.7 | 40.7 | 94.3  | -97.6  | 135.8 | 314.0 | 0.81 | 0.00 | 1.00 | % B40R |
| 315 | 12.3 | x | 0.261 | 0.102 | 2.562 | -2.489 | 0.268  | 19.7 | -26.6 | 33.2 | 306.5 | 41.7 | 95.9  | -95.7  | 135.5 | 315.0 | 0.82 | 0.00 | 1.00 | % B41R |
| 316 | 13.2 | x | 0.271 | 0.107 | 2.54  | -2.32  | 0.539  | 20.8 | -26.6 | 33.3 | 308.3 | 43.1 | 97.1  | -93.3  | 134.7 | 316.1 | 0.84 | 0.00 | 1.00 | % B42R |
| 317 | 1.7  | x | 0.281 | 0.112 | 2.517 | -2.171 | 0.462  | 22.0 | -26.0 | 34.0 | 310.7 | 44.5 | 98.2  | -90.0  | 133.8 | 317.2 | 0.86 | 0.00 | 1.00 | % B43R |
| 318 | 15.2 | x | 0.291 | 0.117 | 2.489 | -2.018 | 0.275  | 23.1 | -25.6 | 34.5 | 312.0 | 45.9 | 99.2  | -88.4  | 132.9 | 318.2 | 0.87 | 0.00 | 1.00 | % B43R |
| 319 | 16.2 | x | 0.301 | 0.122 | 2.461 | -1.884 | 0.158  | 24.3 | -25.2 | 35.5 | 313.9 | 47.3 | 100.0 | -85.9  | 131.9 | 319.3 | 0.89 | 0.00 | 1.00 | % B44R |
| 320 | 17.3 | x | 0.31  | 0.127 | 2.432 | -1.761 | 0.25   | 25.5 | -24.8 | 36.5 | 315.7 | 48.7 | 100.8 | -83.4  | 130.8 | 320.3 | 0.9  | 0.00 | 1.00 | % B45R |
| 321 | 18.5 | x | 0.319 | 0.132 | 2.403 | -1.649 | 0.1952 | 26.6 | -24.4 | 36.1 | 317.1 | 50.1 | 101.4 | -80.9  | 129.7 | 321.4 | 0.92 | 0.00 | 1.00 | % B46R |
| 322 | 19.7 | x | 0.327 | 0.138 | 2.373 | -1.546 | 0.1862 | 27.8 | -24.0 | 36.7 | 319.2 | 51.5 | 101.9 | -78.4  | 128.6 | 322.4 | 0.94 | 0.00 | 1.00 | % B47R |
| 323 | 20.9 | x | 0.335 | 0.143 | 2.344 | -1.453 | 0.1779 | 28.9 | -23.5 | 37.2 | 320.8 | 52.9 | 102.3 | -75.9  | 127.4 | 323.4 | 0.95 | 0.00 | 1.00 | % B47R |
| 324 | 22.2 | x | 0.343 | 0.148 | 2.315 | -1.368 | 0.1704 | 30.0 | -23.0 | 37.8 | 322.4 | 54.2 | 102.7 | -73.4  | 126.2 | 324.4 | 0.97 | 0.00 | 1.00 | % B48R |
| 325 | 23.3 | x | 0.35  | 0.153 | 2.288 | -1.292 | 0.1636 | 31.0 | -22.5 | 38.4 | 323.9 | 55.5 | 102.9 | -71.1  | 125.1 | 325.3 | 1.00 | 0.00 | 1.00 | % B49R |
| 326 | 24.7 | x | 0.357 | 0.158 | 2.261 | -1.223 | 0.1574 | 32.2 | -22.1 | 38.9 | 325.6 | 56.6 | 103.1 | -68.4  | 123.9 | 326.3 | 1.00 | 0.00 | 0.99 | % B50R |
| 327 | 25.9 | x | 0.364 | 0.162 | 2.235 | -1.161 | 0.1519 | 33.0 | -21.6 | 39.4 | 326.8 | 58.0 | 103.2 | -66.5  | 12>   |       |      |      |      |        |