

CIE93-Normalfarbwerte, Buntenwerte und Farbwerte ( $x=1,4, y=0,5$ )  
Normierte Oswald (D50) Farbwerte ( $x=1,4, y=0,5$ ), gemittelt nach Buntenwerten.

| Normalfarbwerte und Buntenwerte |        |         | Buntenwerte |        |        |
|---------------------------------|--------|---------|-------------|--------|--------|
| $x$                             | $y$    | $z$     | $x$         | $y$    | $z$    |
| 38,12                           | 12,19  | 76,09   | 0,281       | 0,313  | 0,618  |
| 39,48                           | 13,25  | 63,34   | 0,381       | 0,413  | 0,718  |
| 40,84                           | 14,31  | 50,59   | 0,481       | 0,513  | 0,818  |
| 42,20                           | 15,37  | 37,84   | 0,581       | 0,613  | 0,918  |
| 43,56                           | 16,43  | 25,09   | 0,681       | 0,713  | 1,018  |
| 44,92                           | 17,49  | 12,34   | 0,781       | 0,813  | 1,118  |
| 46,28                           | 18,55  | 0,59    | 0,881       | 0,913  | 1,218  |
| 47,64                           | 19,61  | -0,16   | 0,981       | 1,013  | 1,318  |
| 49,00                           | 20,67  | -0,91   | 1,081       | 1,113  | 1,418  |
| 50,36                           | 21,73  | -1,66   | 1,181       | 1,213  | 1,518  |
| 51,72                           | 22,79  | -2,41   | 1,281       | 1,313  | 1,618  |
| 53,08                           | 23,85  | -3,16   | 1,381       | 1,413  | 1,718  |
| 54,44                           | 24,91  | -3,91   | 1,481       | 1,513  | 1,818  |
| 55,80                           | 25,97  | -4,66   | 1,581       | 1,613  | 1,918  |
| 57,16                           | 27,03  | -5,41   | 1,681       | 1,713  | 2,018  |
| 58,52                           | 28,09  | -6,16   | 1,781       | 1,813  | 2,118  |
| 59,88                           | 29,15  | -6,91   | 1,881       | 1,913  | 2,218  |
| 61,24                           | 30,21  | -7,66   | 1,981       | 2,013  | 2,318  |
| 62,60                           | 31,27  | -8,41   | 2,081       | 2,113  | 2,418  |
| 63,96                           | 32,33  | -9,16   | 2,181       | 2,213  | 2,518  |
| 65,32                           | 33,39  | -9,91   | 2,281       | 2,313  | 2,618  |
| 66,68                           | 34,45  | -10,66  | 2,381       | 2,413  | 2,718  |
| 68,04                           | 35,51  | -11,41  | 2,481       | 2,513  | 2,818  |
| 69,40                           | 36,57  | -12,16  | 2,581       | 2,613  | 2,918  |
| 70,76                           | 37,63  | -12,91  | 2,681       | 2,713  | 3,018  |
| 72,12                           | 38,69  | -13,66  | 2,781       | 2,813  | 3,118  |
| 73,48                           | 39,75  | -14,41  | 2,881       | 2,913  | 3,218  |
| 74,84                           | 40,81  | -15,16  | 2,981       | 3,013  | 3,318  |
| 76,20                           | 41,87  | -15,91  | 3,081       | 3,113  | 3,418  |
| 77,56                           | 42,93  | -16,66  | 3,181       | 3,213  | 3,518  |
| 78,92                           | 43,99  | -17,41  | 3,281       | 3,313  | 3,618  |
| 80,28                           | 45,05  | -18,16  | 3,381       | 3,413  | 3,718  |
| 81,64                           | 46,11  | -18,91  | 3,481       | 3,513  | 3,818  |
| 83,00                           | 47,17  | -19,66  | 3,581       | 3,613  | 3,918  |
| 84,36                           | 48,23  | -20,41  | 3,681       | 3,713  | 4,018  |
| 85,72                           | 49,29  | -21,16  | 3,781       | 3,813  | 4,118  |
| 87,08                           | 50,35  | -21,91  | 3,881       | 3,913  | 4,218  |
| 88,44                           | 51,41  | -22,66  | 3,981       | 4,013  | 4,318  |
| 89,80                           | 52,47  | -23,41  | 4,081       | 4,113  | 4,418  |
| 91,16                           | 53,53  | -24,16  | 4,181       | 4,213  | 4,518  |
| 92,52                           | 54,59  | -24,91  | 4,281       | 4,313  | 4,618  |
| 93,88                           | 55,65  | -25,66  | 4,381       | 4,413  | 4,718  |
| 95,24                           | 56,71  | -26,41  | 4,481       | 4,513  | 4,818  |
| 96,60                           | 57,77  | -27,16  | 4,581       | 4,613  | 4,918  |
| 97,96                           | 58,83  | -27,91  | 4,681       | 4,713  | 5,018  |
| 99,32                           | 59,89  | -28,66  | 4,781       | 4,813  | 5,118  |
| 100,68                          | 60,95  | -29,41  | 4,881       | 4,913  | 5,218  |
| 102,04                          | 62,01  | -30,16  | 4,981       | 5,013  | 5,318  |
| 103,40                          | 63,07  | -30,91  | 5,081       | 5,113  | 5,418  |
| 104,76                          | 64,13  | -31,66  | 5,181       | 5,213  | 5,518  |
| 106,12                          | 65,19  | -32,41  | 5,281       | 5,313  | 5,618  |
| 107,48                          | 66,25  | -33,16  | 5,381       | 5,413  | 5,718  |
| 108,84                          | 67,31  | -33,91  | 5,481       | 5,513  | 5,818  |
| 110,20                          | 68,37  | -34,66  | 5,581       | 5,613  | 5,918  |
| 111,56                          | 69,43  | -35,41  | 5,681       | 5,713  | 6,018  |
| 112,92                          | 70,49  | -36,16  | 5,781       | 5,813  | 6,118  |
| 114,28                          | 71,55  | -36,91  | 5,881       | 5,913  | 6,218  |
| 115,64                          | 72,61  | -37,66  | 5,981       | 6,013  | 6,318  |
| 117,00                          | 73,67  | -38,41  | 6,081       | 6,113  | 6,418  |
| 118,36                          | 74,73  | -39,16  | 6,181       | 6,213  | 6,518  |
| 119,72                          | 75,79  | -39,91  | 6,281       | 6,313  | 6,618  |
| 121,08                          | 76,85  | -40,66  | 6,381       | 6,413  | 6,718  |
| 122,44                          | 77,91  | -41,41  | 6,481       | 6,513  | 6,818  |
| 123,80                          | 78,97  | -42,16  | 6,581       | 6,613  | 6,918  |
| 125,16                          | 80,03  | -42,91  | 6,681       | 6,713  | 7,018  |
| 126,52                          | 81,09  | -43,66  | 6,781       | 6,813  | 7,118  |
| 127,88                          | 82,15  | -44,41  | 6,881       | 6,913  | 7,218  |
| 129,24                          | 83,21  | -45,16  | 6,981       | 7,013  | 7,318  |
| 130,60                          | 84,27  | -45,91  | 7,081       | 7,113  | 7,418  |
| 131,96                          | 85,33  | -46,66  | 7,181       | 7,213  | 7,518  |
| 133,32                          | 86,39  | -47,41  | 7,281       | 7,313  | 7,618  |
| 134,68                          | 87,45  | -48,16  | 7,381       | 7,413  | 7,718  |
| 136,04                          | 88,51  | -48,91  | 7,481       | 7,513  | 7,818  |
| 137,40                          | 89,57  | -49,66  | 7,581       | 7,613  | 7,918  |
| 138,76                          | 90,63  | -50,41  | 7,681       | 7,713  | 8,018  |
| 140,12                          | 91,69  | -51,16  | 7,781       | 7,813  | 8,118  |
| 141,48                          | 92,75  | -51,91  | 7,881       | 7,913  | 8,218  |
| 142,84                          | 93,81  | -52,66  | 7,981       | 8,013  | 8,318  |
| 144,20                          | 94,87  | -53,41  | 8,081       | 8,113  | 8,418  |
| 145,56                          | 95,93  | -54,16  | 8,181       | 8,213  | 8,518  |
| 146,92                          | 96,99  | -54,91  | 8,281       | 8,313  | 8,618  |
| 148,28                          | 98,05  | -55,66  | 8,381       | 8,413  | 8,718  |
| 149,64                          | 99,11  | -56,41  | 8,481       | 8,513  | 8,818  |
| 151,00                          | 100,17 | -57,16  | 8,581       | 8,613  | 8,918  |
| 152,36                          | 101,23 | -57,91  | 8,681       | 8,713  | 9,018  |
| 153,72                          | 102,29 | -58,66  | 8,781       | 8,813  | 9,118  |
| 155,08                          | 103,35 | -59,41  | 8,881       | 8,913  | 9,218  |
| 156,44                          | 104,41 | -60,16  | 8,981       | 9,013  | 9,318  |
| 157,80                          | 105,47 | -60,91  | 9,081       | 9,113  | 9,418  |
| 159,16                          | 106,53 | -61,66  | 9,181       | 9,213  | 9,518  |
| 160,52                          | 107,59 | -62,41  | 9,281       | 9,313  | 9,618  |
| 161,88                          | 108,65 | -63,16  | 9,381       | 9,413  | 9,718  |
| 163,24                          | 109,71 | -63,91  | 9,481       | 9,513  | 9,818  |
| 164,60                          | 110,77 | -64,66  | 9,581       | 9,613  | 9,918  |
| 165,96                          | 111,83 | -65,41  | 9,681       | 9,713  | 10,018 |
| 167,32                          | 112,89 | -66,16  | 9,781       | 9,813  | 10,118 |
| 168,68                          | 113,95 | -66,91  | 9,881       | 9,913  | 10,218 |
| 170,04                          | 115,01 | -67,66  | 9,981       | 10,013 | 10,318 |
| 171,40                          | 116,07 | -68,41  | 10,081      | 10,113 | 10,418 |
| 172,76                          | 117,13 | -69,16  | 10,181      | 10,213 | 10,518 |
| 174,12                          | 118,19 | -69,91  | 10,281      | 10,313 | 10,618 |
| 175,48                          | 119,25 | -70,66  | 10,381      | 10,413 | 10,718 |
| 176,84                          | 120,31 | -71,41  | 10,481      | 10,513 | 10,818 |
| 178,20                          | 121,37 | -72,16  | 10,581      | 10,613 | 10,918 |
| 179,56                          | 122,43 | -72,91  | 10,681      | 10,713 | 11,018 |
| 180,92                          | 123,49 | -73,66  | 10,781      | 10,813 | 11,118 |
| 182,28                          | 124,55 | -74,41  | 10,881      | 10,913 | 11,218 |
| 183,64                          | 125,61 | -75,16  | 10,981      | 11,013 | 11,318 |
| 185,00                          | 126,67 | -75,91  | 11,081      | 11,113 | 11,418 |
| 186,36                          | 127,73 | -76,66  | 11,181      | 11,213 | 11,518 |
| 187,72                          | 128,79 | -77,41  | 11,281      | 11,313 | 11,618 |
| 189,08                          | 129,85 | -78,16  | 11,381      | 11,413 | 11,718 |
| 190,44                          | 130,91 | -78,91  | 11,481      | 11,513 | 11,818 |
| 191,80                          | 131,97 | -79,66  | 11,581      | 11,613 | 11,918 |
| 193,16                          | 133,03 | -80,41  | 11,681      | 11,713 | 12,018 |
| 194,52                          | 134,09 | -81,16  | 11,781      | 11,813 | 12,118 |
| 195,88                          | 135,15 | -81,91  | 11,881      | 11,913 | 12,218 |
| 197,24                          | 136,21 | -82,66  | 11,981      | 12,013 | 12,318 |
| 198,60                          | 137,27 | -83,41  | 12,081      | 12,113 | 12,418 |
| 199,96                          | 138,33 | -84,16  | 12,181      | 12,213 | 12,518 |
| 201,32                          | 139,39 | -84,91  | 12,281      | 12,313 | 12,618 |
| 202,68                          | 140,45 | -85,66  | 12,381      | 12,413 | 12,718 |
| 204,04                          | 141,51 | -86,41  | 12,481      | 12,513 | 12,818 |
| 205,40                          | 142,57 | -87,16  | 12,581      | 12,613 | 12,918 |
| 206,76                          | 143,63 | -87,91  | 12,681      | 12,713 | 13,018 |
| 208,12                          | 144,69 | -88,66  | 12,781      | 12,813 | 13,118 |
| 209,48                          | 145,75 | -89,41  | 12,881      | 12,913 | 13,218 |
| 210,84                          | 146,81 | -90,16  | 12,981      | 13,013 | 13,318 |
| 212,20                          | 147,87 | -90,91  | 13,081      | 13,113 | 13,418 |
| 213,56                          | 148,93 | -91,66  | 13,181      | 13,213 | 13,518 |
| 214,92                          | 149,99 | -92,41  | 13,281      | 13,313 | 13,618 |
| 216,28                          | 151,05 | -93,16  | 13,381      | 13,413 | 13,718 |
| 217,64                          | 152,11 | -93,91  | 13,481      | 13,513 | 13,818 |
| 219,00                          | 153,17 | -94,66  | 13,581      | 13,613 | 13,918 |
| 220,36                          | 154,23 | -95,41  | 13,681      | 13,713 | 14,018 |
| 221,72                          | 155,29 | -96,16  | 13,781      | 13,813 | 14,118 |
| 223,08                          | 156,35 | -96,91  | 13,881      | 13,913 | 14,218 |
| 224,44                          | 157,41 | -97,66  | 13,981      | 14,013 | 14,318 |
| 225,80                          | 158,47 | -98,41  | 14,081      | 14,113 | 14,418 |
| 227,16                          | 159,53 | -99,16  | 14,181      | 14,213 | 14,518 |
| 228,52                          | 160,59 | -99,91  | 14,281      | 14,313 | 14,618 |
| 229,88                          | 161,65 | -100,66 | 14,381      | 14,413 | 14,718 |
| 231,24                          | 162,71 | -101,41 | 14,481      | 14,513 | 14,818 |
| 232,60                          | 163,77 | -102,16 | 14,581      | 14,613 | 14,918 |
| 233,96                          | 164,83 | -102,91 | 14,681      | 14,713 | 15,018 |
| 235,32                          | 165,89 | -103,66 | 14,781      | 14,813 | 15,118 |
| 236,68                          | 166,95 | -104,41 | 14,881      | 14,913 | 15,218 |
| 238,04                          | 168,01 | -105,16 | 14,981      | 15,013 | 15,318 |
| 239,40                          | 169,07 | -105,91 | 15,081      | 15,113 | 15,418 |
| 240,76                          | 170,13 | -106,66 | 15,181      | 15,213 | 15,518 |
| 242,12                          | 171,19 | -107,41 | 15,281      | 15,313 | 15,618 |
| 243,48                          | 172,25 | -108,16 | 15,381      | 15,413 | 15,718 |
| 244,84                          | 173,31 | -108,91 | 15,481      | 15,513 | 15,818 |
| 246,20                          | 174,37 | -109,66 | 15,581      | 15,613 | 15,918 |
| 247,56                          | 175,43 | -110,41 | 15,681      | 15,713 | 16,018 |
| 248,92                          | 176,49 | -111,16 | 15,781      | 15,813 | 16,118 |
| 250,28                          | 177,55 | -111,91 | 15,881      | 15,913 | 16,218 |
| 251,64                          | 178,61 | -112,66 | 15,981      | 16,013 | 16,318 |
| 253,00                          | 179,67 | -113,41 | 16,081      | 16,113 | 16,418 |
| 254,36                          | 180,73 | -114,16 | 16,181      | 16,213 | 16,518 |
| 255,72                          | 181,79 | -114,91 | 16,281      | 16,313 | 16,618 |
| 257,08                          | 182,85 | -115,66 | 16,381      | 16,413 | 16,718 |
| 258,44                          | 183,91 | -116,41 | 16,481      | 16,513 | 16,818 |
| 259,80                          | 184,97 | -117,16 | 16,581      | 16,613 | 16,918 |
| 261,16                          | 186,03 | -117,91 | 16,681      | 16,713 | 17,018 |
| 262,52                          | 187,09 | -118,66 | 16,781      | 16,813 | 17,118 |
| 263,88                          | 188,15 | -119,41 | 16,881      | 16,913 | 17,218 |
| 265,24                          | 189,21 | -120,16 | 16,981      | 17,013 | 17,318 |
| 266,60                          | 190,27 | -120,91 | 17,081      | 17,113 | 17,418 |
| 267,96                          | 191,33 | -121,66 | 17,181      | 17,213 | 17,518 |
| 269,32                          | 192,39 | -122,41 | 17,281      | 17,313 | 17,618 |
| 270,68                          | 193,45 | -123,16 | 17,381      | 17,413 | 17,718 |
| 272,04                          | 194,51 | -123,91 | 17,481      | 17,513 | 17,818 |
| 273,40                          | 195,57 | -124,66 | 17,581      | 17,613 | 17,918 |
| 274,76                          | 196,63 | -125,41 | 17,681      | 17,713 | 18,018 |
| 276,12                          | 197,69 | -126,16 | 17,781      | 17,813 | 18,118 |
| 277,48                          | 198,75 | -126,91 | 17,881      |        |        |



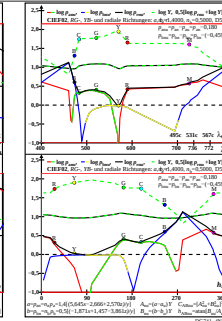
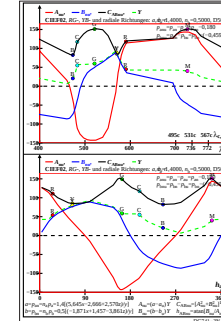
Siehe ähnliche Dateien: <http://farbe.li.tu-berlin.de/DG74/DG74L0N1.TXT /PS>  
Technische Information: <http://farbe.li.tu-berlin.de> oder <http://130.149.60.45/~fabmatk>

CIE98-Normalfarbwerte, Buntenwerte und Farbwerte ( $\lambda_e=455$ )  
Normierte Densität (D) Farbwerte ( $x=100$ ), gerundet nach Rundungsschritt

| Normalfarbwerte und Buntenwerte |       |       | Farbwerte |       |       |
|---------------------------------|-------|-------|-----------|-------|-------|
| $\lambda_e$                     | $x$   | $y$   | $x$       | $y$   | $z$   |
| 38                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 40                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 42                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 44                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 46                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 48                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 50                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 52                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 54                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 56                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 58                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 60                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 62                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 64                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 66                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 68                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 70                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 72                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 74                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 76                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 78                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 80                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 82                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 84                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 86                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 88                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 90                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 92                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 94                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 96                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 98                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 100                             | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |

CIE98-Normalfarbwerte, Buntenwerte und Farbwerte ( $\lambda_e=455$ )  
Normierte Densität (D) Farbwerte ( $x=100$ ), gerundet nach Rundungsschritt

| Normalfarbwerte und Buntenwerte |       |       | Farbwerte |       |       |
|---------------------------------|-------|-------|-----------|-------|-------|
| $\lambda_e$                     | $x$   | $y$   | $x$       | $y$   | $z$   |
| 38                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 40                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 42                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 44                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 46                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 48                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 50                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 52                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 54                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 56                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 58                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 60                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 62                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 64                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 66                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 68                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 70                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 72                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 74                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 76                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 78                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 80                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 82                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 84                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 86                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 88                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 90                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 92                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 94                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 96                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 98                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 100                             | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |

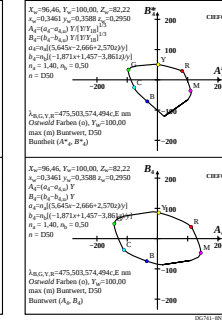
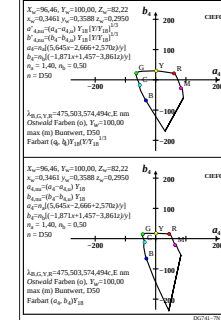


CIE98-Normalfarbwerte, Buntenwerte und Farbwerte ( $\lambda_e=455$ )  
Normierte Densität (D) Farbwerte ( $x=100$ ), gerundet nach Rundungsschritt

| Normalfarbwerte und Buntenwerte |       |       | Farbwerte |       |       |
|---------------------------------|-------|-------|-----------|-------|-------|
| $\lambda_e$                     | $x$   | $y$   | $x$       | $y$   | $z$   |
| 38                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 40                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 42                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 44                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 46                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 48                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 50                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 52                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 54                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 56                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 58                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 60                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 62                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 64                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 66                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 68                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 70                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 72                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 74                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 76                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 78                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 80                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 82                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 84                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 86                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 88                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 90                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 92                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 94                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 96                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 98                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 100                             | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |

CIE98-Normalfarbwerte, Buntenwerte und Farbwerte ( $\lambda_e=455$ )  
Normierte Densität (D) Farbwerte ( $x=100$ ), gerundet nach Rundungsschritt

| Normalfarbwerte und Buntenwerte |       |       | Farbwerte |       |       |
|---------------------------------|-------|-------|-----------|-------|-------|
| $\lambda_e$                     | $x$   | $y$   | $x$       | $y$   | $z$   |
| 38                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 40                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 42                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 44                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 46                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 48                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 50                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 52                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 54                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 56                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 58                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 60                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 62                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 64                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 66                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 68                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 70                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 72                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 74                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 76                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 78                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 80                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 82                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 84                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 86                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 88                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 90                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 92                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 94                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 96                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 98                              | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |
| 100                             | 0.051 | 0.234 | 0.051     | 0.234 | 0.051 |



TUB-Prüfvorlage DG74; 4 CIE- & 2 R17M-Beobachter, farbmaterielle Berechnungen von Buntenwerten  
Farbatdefinition:  $a=1,45,645x+2,666+2,570z/y$ ,  $b=0,51-1,871x+1,457-3,861z/y$

TUB-Registrierung: 20180801-DG74/DG74L0N1.TXT /PS  
Anwendung für Messung von Offdruck-Ausgabe  
TUB-Material: Code=th4ta

Siehe ähnliche Dateien: http://farbe.li.tu-berlin.de/DG74/DG74L0N1.TXT /PS  
 Technische Information: http://farbe.li.tu-berlin.de oder http://130.149.60.45/~fabmetik

**CIE1931-Normalfarbwerte, Buntenwerte und Farbwerte (a\*, L\*, a\*, -55)**  
 Normierte Oswald (D2) Farbwerte (Y=100), gemischt nach Buntenwerten

| Normalfarbwerte und Buntenwerte |         |          |        | a*-Buntenwerte |         |        |        |
|---------------------------------|---------|----------|--------|----------------|---------|--------|--------|
| X                               | Y       | Z        | a*     | X              | Y       | Z      | a*     |
| 38.12                           | 65.03   | 26.78    | 74.95  | 38.12          | 65.03   | 26.78  | 74.95  |
| 40.45                           | 53.44   | 6.61     | 74.95  | 40.45          | 53.44   | 6.61   | 74.95  |
| 42.82                           | 46.08   | 13.45    | 77.94  | 42.82          | 46.08   | 13.45  | 77.94  |
| 45.18                           | 38.12   | 20.38    | 80.98  | 45.18          | 38.12   | 20.38  | 80.98  |
| 47.54                           | 30.16   | 27.31    | 84.01  | 47.54          | 30.16   | 27.31  | 84.01  |
| 50.00                           | 22.19   | 34.26    | 87.04  | 50.00          | 22.19   | 34.26  | 87.04  |
| 52.46                           | 14.23   | 41.21    | 90.07  | 52.46          | 14.23   | 41.21  | 90.07  |
| 54.92                           | 6.27    | 48.16    | 93.10  | 54.92          | 6.27    | 48.16  | 93.10  |
| 57.38                           | -1.78   | 55.11    | 96.13  | 57.38          | -1.78   | 55.11  | 96.13  |
| 59.84                           | -3.83   | 62.06    | 99.16  | 59.84          | -3.83   | 62.06  | 99.16  |
| 62.30                           | -5.88   | 69.01    | 102.19 | 62.30          | -5.88   | 69.01  | 102.19 |
| 64.76                           | -7.93   | 75.96    | 105.22 | 64.76          | -7.93   | 75.96  | 105.22 |
| 67.22                           | -9.98   | 82.91    | 108.25 | 67.22          | -9.98   | 82.91  | 108.25 |
| 69.68                           | -12.03  | 89.86    | 111.28 | 69.68          | -12.03  | 89.86  | 111.28 |
| 72.14                           | -14.08  | 96.81    | 114.31 | 72.14          | -14.08  | 96.81  | 114.31 |
| 74.60                           | -16.13  | 103.76   | 117.34 | 74.60          | -16.13  | 103.76 | 117.34 |
| 77.06                           | -18.18  | 110.71   | 120.37 | 77.06          | -18.18  | 110.71 | 120.37 |
| 79.52                           | -20.23  | 117.66   | 123.40 | 79.52          | -20.23  | 117.66 | 123.40 |
| 81.98                           | -22.28  | 124.61   | 126.43 | 81.98          | -22.28  | 124.61 | 126.43 |
| 84.44                           | -24.33  | 131.62   | 129.46 | 84.44          | -24.33  | 131.62 | 129.46 |
| 86.90                           | -26.38  | 138.63   | 132.49 | 86.90          | -26.38  | 138.63 | 132.49 |
| 89.36                           | -28.43  | 145.64   | 135.52 | 89.36          | -28.43  | 145.64 | 135.52 |
| 91.82                           | -30.48  | 152.65   | 138.55 | 91.82          | -30.48  | 152.65 | 138.55 |
| 94.28                           | -32.53  | 159.66   | 141.58 | 94.28          | -32.53  | 159.66 | 141.58 |
| 96.74                           | -34.58  | 166.67   | 144.61 | 96.74          | -34.58  | 166.67 | 144.61 |
| 99.20                           | -36.63  | 173.68   | 147.64 | 99.20          | -36.63  | 173.68 | 147.64 |
| 101.66                          | -38.68  | 180.69   | 150.67 | 101.66         | -38.68  | 180.69 | 150.67 |
| 104.12                          | -40.73  | 187.70   | 153.70 | 104.12         | -40.73  | 187.70 | 153.70 |
| 106.58                          | -42.78  | 194.71   | 156.73 | 106.58         | -42.78  | 194.71 | 156.73 |
| 109.04                          | -44.83  | 201.72   | 159.76 | 109.04         | -44.83  | 201.72 | 159.76 |
| 111.50                          | -46.88  | 208.73   | 162.79 | 111.50         | -46.88  | 208.73 | 162.79 |
| 113.96                          | -48.93  | 215.74   | 165.82 | 113.96         | -48.93  | 215.74 | 165.82 |
| 116.42                          | -50.98  | 222.75   | 168.85 | 116.42         | -50.98  | 222.75 | 168.85 |
| 118.88                          | -53.03  | 229.76   | 171.88 | 118.88         | -53.03  | 229.76 | 171.88 |
| 121.34                          | -55.08  | 236.77   | 174.91 | 121.34         | -55.08  | 236.77 | 174.91 |
| 123.80                          | -57.13  | 243.78   | 177.94 | 123.80         | -57.13  | 243.78 | 177.94 |
| 126.26                          | -59.18  | 250.79   | 180.97 | 126.26         | -59.18  | 250.79 | 180.97 |
| 128.72                          | -61.23  | 257.80   | 184.00 | 128.72         | -61.23  | 257.80 | 184.00 |
| 131.18                          | -63.28  | 264.81   | 187.03 | 131.18         | -63.28  | 264.81 | 187.03 |
| 133.64                          | -65.33  | 271.82   | 190.06 | 133.64         | -65.33  | 271.82 | 190.06 |
| 136.10                          | -67.38  | 278.83   | 193.09 | 136.10         | -67.38  | 278.83 | 193.09 |
| 138.56                          | -69.43  | 285.84   | 196.12 | 138.56         | -69.43  | 285.84 | 196.12 |
| 141.02                          | -71.48  | 292.85   | 199.15 | 141.02         | -71.48  | 292.85 | 199.15 |
| 143.48                          | -73.53  | 299.86   | 202.18 | 143.48         | -73.53  | 299.86 | 202.18 |
| 145.94                          | -75.58  | 306.87   | 205.21 | 145.94         | -75.58  | 306.87 | 205.21 |
| 148.40                          | -77.63  | 313.88   | 208.24 | 148.40         | -77.63  | 313.88 | 208.24 |
| 150.86                          | -79.68  | 320.89   | 211.27 | 150.86         | -79.68  | 320.89 | 211.27 |
| 153.32                          | -81.73  | 327.90   | 214.30 | 153.32         | -81.73  | 327.90 | 214.30 |
| 155.78                          | -83.78  | 334.91   | 217.33 | 155.78         | -83.78  | 334.91 | 217.33 |
| 158.24                          | -85.83  | 341.92   | 220.36 | 158.24         | -85.83  | 341.92 | 220.36 |
| 160.70                          | -87.88  | 348.93   | 223.39 | 160.70         | -87.88  | 348.93 | 223.39 |
| 163.16                          | -89.93  | 355.94   | 226.42 | 163.16         | -89.93  | 355.94 | 226.42 |
| 165.62                          | -91.98  | 362.95   | 229.45 | 165.62         | -91.98  | 362.95 | 229.45 |
| 168.08                          | -94.03  | 369.96   | 232.48 | 168.08         | -94.03  | 369.96 | 232.48 |
| 170.54                          | -96.08  | 376.97   | 235.51 | 170.54         | -96.08  | 376.97 | 235.51 |
| 173.00                          | -98.13  | 383.98   | 238.54 | 173.00         | -98.13  | 383.98 | 238.54 |
| 175.46                          | -100.18 | 390.99   | 241.57 | 175.46         | -100.18 | 390.99 | 241.57 |
| 177.92                          | -102.23 | 398.00   | 244.60 | 177.92         | -102.23 | 398.00 | 244.60 |
| 180.38                          | -104.28 | 405.01   | 247.63 | 180.38         | -104.28 | 405.01 | 247.63 |
| 182.84                          | -106.33 | 412.02   | 250.66 | 182.84         | -106.33 | 412.02 | 250.66 |
| 185.30                          | -108.38 | 419.03   | 253.69 | 185.30         | -108.38 | 419.03 | 253.69 |
| 187.76                          | -110.43 | 426.04   | 256.72 | 187.76         | -110.43 | 426.04 | 256.72 |
| 190.22                          | -112.48 | 433.05   | 259.75 | 190.22         | -112.48 | 433.05 | 259.75 |
| 192.68                          | -114.53 | 440.06   | 262.78 | 192.68         | -114.53 | 440.06 | 262.78 |
| 195.14                          | -116.58 | 447.07   | 265.81 | 195.14         | -116.58 | 447.07 | 265.81 |
| 197.60                          | -118.63 | 454.08   | 268.84 | 197.60         | -118.63 | 454.08 | 268.84 |
| 200.06                          | -120.68 | 461.09   | 271.87 | 200.06         | -120.68 | 461.09 | 271.87 |
| 202.52                          | -122.73 | 468.10   | 274.90 | 202.52         | -122.73 | 468.10 | 274.90 |
| 204.98                          | -124.78 | 475.11   | 277.93 | 204.98         | -124.78 | 475.11 | 277.93 |
| 207.44                          | -126.83 | 482.12   | 280.96 | 207.44         | -126.83 | 482.12 | 280.96 |
| 209.90                          | -128.88 | 489.13   | 283.99 | 209.90         | -128.88 | 489.13 | 283.99 |
| 212.36                          | -130.93 | 496.14   | 287.02 | 212.36         | -130.93 | 496.14 | 287.02 |
| 214.82                          | -132.98 | 503.15   | 290.05 | 214.82         | -132.98 | 503.15 | 290.05 |
| 217.28                          | -135.03 | 510.16   | 293.08 | 217.28         | -135.03 | 510.16 | 293.08 |
| 219.74                          | -137.08 | 517.17   | 296.11 | 219.74         | -137.08 | 517.17 | 296.11 |
| 222.20                          | -139.13 | 524.18   | 299.14 | 222.20         | -139.13 | 524.18 | 299.14 |
| 224.66                          | -141.18 | 531.19   | 302.17 | 224.66         | -141.18 | 531.19 | 302.17 |
| 227.12                          | -143.23 | 538.20   | 305.20 | 227.12         | -143.23 | 538.20 | 305.20 |
| 229.58                          | -145.28 | 545.21   | 308.23 | 229.58         | -145.28 | 545.21 | 308.23 |
| 232.04                          | -147.33 | 552.22   | 311.26 | 232.04         | -147.33 | 552.22 | 311.26 |
| 234.50                          | -149.38 | 559.23   | 314.29 | 234.50         | -149.38 | 559.23 | 314.29 |
| 236.96                          | -151.43 | 566.24   | 317.32 | 236.96         | -151.43 | 566.24 | 317.32 |
| 239.42                          | -153.48 | 573.25   | 320.35 | 239.42         | -153.48 | 573.25 | 320.35 |
| 241.88                          | -155.53 | 580.26   | 323.38 | 241.88         | -155.53 | 580.26 | 323.38 |
| 244.34                          | -157.58 | 587.27   | 326.41 | 244.34         | -157.58 | 587.27 | 326.41 |
| 246.80                          | -159.63 | 594.28   | 329.44 | 246.80         | -159.63 | 594.28 | 329.44 |
| 249.26                          | -161.68 | 601.29   | 332.47 | 249.26         | -161.68 | 601.29 | 332.47 |
| 251.72                          | -163.73 | 608.30   | 335.50 | 251.72         | -163.73 | 608.30 | 335.50 |
| 254.18                          | -165.78 | 615.31   | 338.53 | 254.18         | -165.78 | 615.31 | 338.53 |
| 256.64                          | -167.83 | 622.32   | 341.56 | 256.64         | -167.83 | 622.32 | 341.56 |
| 259.10                          | -169.88 | 629.33   | 344.59 | 259.10         | -169.88 | 629.33 | 344.59 |
| 261.56                          | -171.93 | 636.34   | 347.62 | 261.56         | -171.93 | 636.34 | 347.62 |
| 264.02                          | -173.98 | 643.35   | 350.65 | 264.02         | -173.98 | 643.35 | 350.65 |
| 266.48                          | -176.03 | 650.36   | 353.68 | 266.48         | -176.03 | 650.36 | 353.68 |
| 268.94                          | -178.08 | 657.37   | 356.71 | 268.94         | -178.08 | 657.37 | 356.71 |
| 271.40                          | -180.13 | 664.38   | 359.74 | 271.40         | -180.13 | 664.38 | 359.74 |
| 273.86                          | -182.18 | 671.39   | 362.77 | 273.86         | -182.18 | 671.39 | 362.77 |
| 276.32                          | -184.23 | 678.40   | 365.80 | 276.32         | -184.23 | 678.40 | 365.80 |
| 278.78                          | -186.28 | 685.41   | 368.83 | 278.78         | -186.28 | 685.41 | 368.83 |
| 281.24                          | -188.33 | 692.42   | 371.86 | 281.24         | -188.33 | 692.42 | 371.86 |
| 283.70                          | -190.38 | 699.43   | 374.89 | 283.70         | -190.38 | 699.43 | 374.89 |
| 286.16                          | -192.43 | 706.44   | 377.92 | 286.16         | -192.43 | 706.44 | 377.92 |
| 288.62                          | -194.48 | 713.45   | 380.95 | 288.62         | -194.48 | 713.45 | 380.95 |
| 291.08                          | -196.53 | 720.46   | 383.98 | 291.08         | -196.53 | 720.46 | 383.98 |
| 293.54                          | -198.58 | 727.47   | 387.01 | 293.54         | -198.58 | 727.47 | 387.01 |
| 296.00                          | -200.63 | 734.48   | 390.04 | 296.00         | -200.63 | 734.48 | 390.04 |
| 298.46                          | -202.68 | 741.49   | 393.07 | 298.46         | -202.68 | 741.49 | 393.07 |
| 300.92                          | -204.73 | 748.50   | 396.10 | 300.92         | -204.73 | 748.50 | 396.10 |
| 303.38                          | -206.78 | 755.51   | 399.13 | 303.38         | -206.78 | 755.51 | 399.13 |
| 305.84                          | -208.83 | 762.52   | 402.16 | 305.84         | -208.83 | 762.52 | 402.16 |
| 308.30                          | -210.88 | 769.53   | 405.19 | 308.30         | -210.88 | 769.53 | 405.19 |
| 310.76                          | -212.93 | 776.54   | 408.22 | 310.76         | -212.93 | 776.54 | 408.22 |
| 313.22                          | -214.98 | 783.55   | 411.25 | 313.22         | -214.98 | 783.55 | 411.25 |
| 315.68                          | -217.03 | 790.56   | 414.28 | 315.68         | -217.03 | 790.56 | 414.28 |
| 318.14                          | -219.08 | 797.57   | 417.31 | 318.14         | -219.08 | 797.57 | 417.31 |
| 320.60                          | -221.13 | 804.58   | 420.34 | 320.60         | -221.13 | 804.58 | 420.34 |
| 323.06                          | -223.18 | 811.59   | 423.37 | 323.06         | -223.18 | 811.59 | 423.37 |
| 325.52                          | -225.23 | 818.60   | 426.40 | 325.52         | -225.23 | 818.60 | 426.40 |
| 327.98                          | -227.28 | 825.61   | 429.43 | 327.98         | -227.28 | 825.61 | 429.43 |
| 330.44                          | -229.33 | 832.62   | 432.46 | 330.44         | -229.33 | 832.62 | 432.46 |
| 332.90                          | -231.38 | 839.63   | 435.49 | 332.90         | -231.38 | 839.63 | 435.49 |
| 335.36                          | -233.43 | 846.64   | 438.52 | 335.36         | -233.43 | 846.64 | 438.52 |
| 337.82                          | -235.48 | 853.65   | 441.55 | 337.82         | -235.48 | 853.65 | 441.55 |
| 340.28                          | -237.53 | 860.66   | 444.58 | 340.28         | -237.53 | 860.66 | 444.58 |
| 342.74                          | -239.58 | 867.67   | 447.61 | 342.74         | -239.58 | 867.67 | 447.61 |
| 345.20                          | -241.63 | 874.68   | 450.64 | 345.20         | -241.63 | 874.68 | 450.64 |
| 347.66                          | -243.68 | 881.69   | 453.67 | 347.66         | -243.68 | 881.69 | 453.67 |
| 350.12                          | -245.73 | 888.70   | 456.70 | 350.12         | -245.73 | 888.70 | 456.70 |
| 352.58                          | -247.78 | 895.71   | 459.73 | 352.58         | -247.78 | 895.71 | 459.73 |
| 355.04                          | -249.83 | 902.72   | 462.76 | 355.04         | -249.83 | 902.72 | 462.76 |
| 357.50                          | -251.88 | 909.73   | 465.79 | 357.50         | -251.88 | 909.73 | 465.79 |
| 359.96                          | -253.93 | 916.74</ |        |                |         |        |        |



