Chi-Squared Mixed Distribution for alfa = 0.05

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	d.f.	critical values
5.00E-01	5.00E-01																									1	2.71
2.50E-01	5.00E-01	2.50E-01																								2	3.81
1.25E-01	3.75E-01	3.75E-01	1.25E-01																							3	4.86
6.25E-02	2.50E-01	3.75E-01	2.50E-01	6.25E-02																						4	5.85
3.13E-02	1.56E-01	3.13E-01	3.13E-01	1.56E-01	3.13E-02																					5	6.79
1.56E-02	9.38E-02	2.34E-01	3.13E-01	2.34E-01	9.38E-02	1.56E-02																				6	7.69
7.81E-03	5.47E-02	1.64E-01	2.73E-01	2.73E-01	1.64E-01	5.47E-02	7.81E-03																			7	8.56
3.91E-03	3.13E-02	1.09E-01	2.19E-01	2.73E-01	2.19E-01	1.09E-01	3.13E-02	3.91E-03																		8	9.39
1.95E-03	1.76E-02	7.03E-02	1.64E-01	2.46E-01	2.46E-01	1.64E-01	7.03E-02	1.76E-02	1.95E-03																	9	10.20
9.77E-04	9.77E-03	4.39E-02	1.17E-01	2.05E-01	2.46E-01	2.05E-01	1.17E-01	4.39E-02	9.77E-03	9.77E-04																10	11.00
4.88E-04	5.37E-03	2.69E-02	8.06E-02	1.61E-01	2.26E-01	2.26E-01	1.61E-01	8.06E-02	2.69E-02	5.37E-03	4.88E-04															11	11.77
2.44E-04	2.93E-03	1.61E-02	5.37E-02	1.21E-01	1.93E-01	2.26E-01	1.93E-01	1.21E-01	5.37E-02	1.61E-02	2.93E-03	2.44E-04														12	12.53
1.22E-04	1.59E-03	9.52E-03	3.49E-02	8.73E-02	1.57E-01	2.09E-01	2.09E-01	1.57E-01	8.73E-02	3.49E-02	9.52E-03	1.59E-03	1.22E-04													13	13.27
6.10E-05	8.54E-04	5.55E-03	2.22E-02	6.11E-02	1.22E-01	1.83E-01	2.09E-01	1.83E-01	1.22E-01	6.11E-02	2.22E-02	5.55E-03	8.54E-04	6.10E-05												14	14.01
3.05E-05	4.58E-04	3.20E-03	1.39E-02	4.17E-02	9.16E-02	1.53E-01	1.96E-01	1.96E-01	1.53E-01	9.16E-02	4.17E-02	1.39E-02	3.20E-03	4.58E-04	3.05E-05											15	14.73
1.53E-05	2.44E-04	1.83E-03	8.54E-03	2.78E-02	6.67E-02	1.22E-01	1.75E-01	1.96E-01	1.75E-01	1.22E-01	6.67E-02	2.78E-02	8.54E-03	1.83E-03	2.44E-04	1.53E-05										16	15.45
7.63E-06	1.30E-04	1.04E-03	5.19E-03	1.82E-02	4.72E-02	9.44E-02	1.48E-01	1.85E-01	1.85E-01	1.48E-01	9.44E-02	4.72E-02	1.82E-02	5.19E-03	1.04E-03	1.30E-04	7.63E-06									17	16.16
3.81E-06	6.87E-05	5.84E-04	3.11E-03	1.17E-02	3.27E-02	7.08E-02	1.21E-01	1.67E-01	1.85E-01	1.67E-01	1.21E-01	7.08E-02	3.27E-02	1.17E-02	3.11E-03	5.84E-04	6.87E-05	3.81E-06								18	16.86
1.91E-06	3.62E-05	3.26E-04	1.85E-03	7.39E-03	2.22E-02	5.18E-02	9.61E-02	1.44E-01	1.76E-01	1.76E-01	1.44E-01	9.61E-02	5.18E-02	2.22E-02	7.39E-03	1.85E-03	3.26E-04	3.62E-05	1.91E-06							19	17.56
9.54E-07	1.91E-05	1.81E-04	1.09E-03	4.62E-03	1.48E-02	3.70E-02	7.39E-02	1.20E-01	1.60E-01	1.76E-01	1.60E-01	1.20E-01	7.39E-02	3.70E-02	1.48E-02	4.62E-03	1.09E-03	1.81E-04	1.91E-05	9.54E-07						20	18.26
4.77E-07	1.00E-05	1.00E-04	6.34E-04	2.85E-03	9.70E-03	2.59E-02	5.54E-02	9.70E-02	1.40E-01	1.68E-01	1.68E-01	1.40E-01	9.70E-02	5.54E-02	2.59E-02	9.70E-03	2.85E-03	6.34E-04	1.00E-04	1.00E-05	4.77E-07					21	18.95
2.38E-07	5.25E-06	5.51E-05	3.67E-04	1.74E-03	6.28E-03	1.78E-02	4.07E-02	7.62E-02	1.19E-01	1.54E-01	1.68E-01	1.54E-01	1.19E-01	7.62E-02	4.07E-02	1.78E-02	6.28E-03	1.74E-03	3.67E-04	5.51E-05	5.25E-06	2.38E-07				22	19.63
1.19E-07	2.74E-06	3.02E-05	2.11E-04	1.06E-03	4.01E-03	1.20E-02	2.92E-02	5.84E-02	9.74E-02	1.36E-01	1.61E-01	1.61E-01	1.36E-01	9.74E-02	5.84E-02	2.92E-02	1.20E-02	4.01E-03	1.06E-03	2.11E-04	3.02E-05	2.74E-06	1.19E-07			23	20.31
5.96E-08	1.43E-06	1.65E-05	1.21E-04	6.33E-04	2.53E-03	8.02E-03	2.06E-02	4.38E-02	7.79E-02	1.17E-01	1.49E-01	1.61E-01	1.49E-01	1.17E-01	7.79E-02	4.38E-02	2.06E-02	8.02E-03	2.53E-03	6.33E-04	1.21E-04	1.65E-05	1.43E-06	5.96E-08		24	20.99
2.98E-08	7.45E-07	8.94E-06	6.85E-05	3.77E-04	1.58E-03	5.28E-03	1.43E-02	3.22E-02	6.09E-02	9.74E-02	1.33E-01	1.55E-01	1.55E-01	1.33E-01	9.74E-02	6.09E-02	3.22E-02	1.43E-02	5.28E-03	1.58E-03	3.77E-04	6.85E-05	8.94E-06	7.45E-07	2.98E-08	25	21.66

Examples:

k=1: $(1/2)\ \chi^2_0+(1/2)\ \chi^2_1 = 2{,}71;$

k=2: $(1/4)\ \chi^2_0+(1/2)\ \chi^2_1+(1/4)\ \chi^2_2 = 3{,}81;$

k=3: $(1/8)\ \chi^2_0+(3/8)\ \chi^2_1+(3/8)\ \chi^2_2+(1/8)\ \chi^2_3 = 4.86;$

k=4: $(1/16)\ \chi^2_0+(1/4)\ \chi^2_1+(3/8)\ \chi^2_3+(1/4)\ \chi^2_3+(1/16)\ \chi^2_4 = 5{,}86.$

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Based on:

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