

# Розподіл хі-квадрат $\chi_{\alpha,r}$

| $r$ | $\alpha$ | 0,50   | 0,40   | 0,30   | 0,20   | 0,10   | 0,05   | 0,025  | 0,01   | 0,005  | 0,001  | 0,0005 |
|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1   |          | 0,455  | 0,708  | 1,074  | 1,642  | 2,706  | 3,841  | 5,024  | 6,635  | 7,879  | 10,828 | 12,116 |
| 2   |          | 1,386  | 1,833  | 2,408  | 3,219  | 4,605  | 5,991  | 7,378  | 9,210  | 10,597 | 13,816 | 15,202 |
| 3   |          | 2,366  | 2,946  | 3,665  | 4,642  | 6,251  | 7,815  | 9,348  | 11,345 | 12,838 | 16,266 | 17,730 |
| 4   |          | 3,357  | 4,045  | 4,878  | 5,989  | 7,779  | 9,488  | 11,143 | 13,277 | 14,860 | 18,467 | 19,997 |
| 5   |          | 4,351  | 5,132  | 6,064  | 7,289  | 9,236  | 11,070 | 12,832 | 15,086 | 16,750 | 20,515 | 22,105 |
| 6   |          | 5,348  | 6,211  | 7,231  | 8,558  | 10,645 | 12,592 | 14,449 | 16,812 | 18,548 | 22,458 | 24,103 |
| 7   |          | 6,346  | 7,283  | 8,383  | 9,803  | 12,017 | 14,067 | 16,013 | 18,475 | 20,278 | 24,322 | 26,018 |
| 8   |          | 7,344  | 8,351  | 9,524  | 11,030 | 13,362 | 15,507 | 17,535 | 20,090 | 21,955 | 26,125 | 27,868 |
| 9   |          | 8,343  | 9,414  | 10,656 | 12,242 | 14,684 | 16,919 | 19,023 | 21,666 | 23,589 | 27,877 | 29,666 |
| 10  |          | 9,342  | 10,473 | 11,781 | 13,442 | 15,987 | 18,307 | 20,483 | 23,209 | 25,188 | 29,588 | 31,420 |
| 11  |          | 10,341 | 11,530 | 12,899 | 14,631 | 17,275 | 19,675 | 21,920 | 24,725 | 26,757 | 31,264 | 33,136 |
| 12  |          | 11,340 | 12,584 | 14,011 | 15,812 | 18,549 | 21,026 | 23,336 | 26,217 | 28,300 | 32,909 | 34,821 |
| 13  |          | 12,340 | 13,636 | 15,119 | 16,985 | 19,812 | 22,362 | 24,735 | 27,688 | 29,819 | 34,528 | 36,478 |
| 14  |          | 13,339 | 14,685 | 16,222 | 18,151 | 21,064 | 23,685 | 26,119 | 29,141 | 31,319 | 36,123 | 38,109 |
| 15  |          | 14,339 | 15,733 | 17,322 | 19,311 | 22,307 | 24,996 | 27,488 | 30,578 | 32,801 | 37,697 | 39,719 |
| 16  |          | 15,338 | 16,780 | 18,418 | 20,465 | 23,542 | 26,296 | 28,845 | 32,000 | 34,267 | 39,252 | 41,308 |
| 17  |          | 16,338 | 17,824 | 19,511 | 21,615 | 24,769 | 27,587 | 30,191 | 33,409 | 35,718 | 40,790 | 42,879 |
| 18  |          | 17,338 | 18,868 | 20,601 | 22,760 | 25,989 | 28,869 | 31,526 | 34,805 | 37,156 | 42,312 | 44,434 |
| 19  |          | 18,338 | 19,910 | 21,689 | 23,900 | 27,204 | 30,144 | 32,852 | 36,191 | 38,582 | 43,820 | 45,973 |
| 20  |          | 19,337 | 20,951 | 22,775 | 25,038 | 28,412 | 31,410 | 34,170 | 37,566 | 39,997 | 45,315 | 47,498 |
| 21  |          | 20,337 | 21,991 | 23,858 | 26,171 | 29,615 | 32,671 | 35,479 | 38,932 | 41,401 | 46,797 | 49,010 |
| 22  |          | 21,337 | 23,031 | 24,939 | 27,301 | 30,813 | 33,924 | 36,781 | 40,289 | 42,796 | 48,268 | 50,511 |
| 23  |          | 22,337 | 24,069 | 26,018 | 28,429 | 32,007 | 35,172 | 38,076 | 41,638 | 44,181 | 49,728 | 52,000 |
| 24  |          | 23,337 | 25,106 | 27,096 | 29,553 | 33,196 | 36,415 | 39,364 | 42,980 | 45,558 | 51,179 | 53,479 |
| 25  |          | 24,337 | 26,143 | 28,172 | 30,675 | 34,382 | 37,652 | 40,646 | 44,314 | 46,928 | 52,618 | 54,947 |
| 26  |          | 25,336 | 27,179 | 29,246 | 31,795 | 35,563 | 38,885 | 41,923 | 45,642 | 48,290 | 54,052 | 56,407 |
| 27  |          | 26,336 | 28,214 | 30,319 | 32,912 | 36,741 | 40,113 | 43,194 | 46,963 | 49,645 | 55,476 | 57,858 |
| 28  |          | 27,336 | 29,249 | 31,391 | 34,027 | 37,916 | 41,337 | 44,461 | 48,278 | 50,993 | 56,892 | 59,300 |
| 29  |          | 28,336 | 30,283 | 32,461 | 35,139 | 39,087 | 42,557 | 45,722 | 49,588 | 52,336 | 58,301 | 60,735 |
| 30  |          | 29,336 | 31,316 | 33,530 | 36,250 | 40,256 | 43,773 | 46,979 | 50,892 | 53,672 | 59,703 | 62,162 |
| 31  |          | 30,336 | 32,349 | 34,598 | 37,359 | 41,422 | 44,985 | 48,232 | 52,191 | 55,003 | 61,098 | 63,582 |
| 32  |          | 31,336 | 33,381 | 35,665 | 38,466 | 42,585 | 46,194 | 49,480 | 53,486 | 56,328 | 62,487 | 64,995 |
| 33  |          | 32,336 | 34,413 | 36,731 | 39,572 | 43,745 | 47,400 | 50,725 | 54,776 | 57,648 | 63,870 | 66,402 |
| 34  |          | 33,336 | 35,444 | 37,795 | 40,676 | 44,903 | 48,602 | 51,966 | 56,061 | 58,964 | 65,247 | 67,803 |
| 35  |          | 34,336 | 36,475 | 38,859 | 41,778 | 46,059 | 49,802 | 53,203 | 57,342 | 60,275 | 66,619 | 69,199 |
| 36  |          | 35,336 | 37,505 | 39,922 | 42,879 | 47,212 | 50,998 | 54,437 | 58,619 | 61,581 | 67,985 | 70,588 |
| 37  |          | 36,336 | 38,535 | 40,984 | 43,978 | 48,363 | 52,192 | 55,668 | 59,892 | 62,882 | 69,346 | 71,972 |
| 38  |          | 37,335 | 39,564 | 42,045 | 45,076 | 49,513 | 53,384 | 56,895 | 61,162 | 64,181 | 70,703 | 73,351 |
| 39  |          | 38,335 | 40,593 | 43,105 | 46,173 | 50,660 | 54,572 | 58,120 | 62,428 | 65,476 | 72,055 | 74,725 |
| 40  |          | 39,335 | 41,622 | 44,165 | 47,269 | 51,805 | 55,758 | 59,342 | 63,691 | 66,766 | 73,402 | 76,095 |
| 41  |          | 40,335 | 42,651 | 45,224 | 48,363 | 52,949 | 56,942 | 60,561 | 64,950 | 68,053 | 74,745 | 77,459 |
| 42  |          | 41,335 | 43,679 | 46,282 | 49,456 | 54,090 | 58,124 | 61,777 | 66,206 | 69,336 | 76,084 | 78,820 |
| 43  |          | 42,335 | 44,706 | 47,339 | 50,548 | 55,230 | 59,304 | 62,990 | 67,459 | 70,616 | 77,419 | 80,176 |
| 44  |          | 43,335 | 45,734 | 48,396 | 51,639 | 56,369 | 60,481 | 64,201 | 68,709 | 71,893 | 78,749 | 81,528 |
| 45  |          | 44,335 | 46,761 | 49,452 | 52,729 | 57,505 | 61,656 | 65,410 | 69,957 | 73,166 | 80,077 | 82,876 |
| 46  |          | 45,335 | 47,787 | 50,507 | 53,818 | 58,641 | 62,830 | 66,617 | 71,201 | 74,437 | 81,400 | 84,220 |
| 47  |          | 46,335 | 48,814 | 51,562 | 54,906 | 59,774 | 64,001 | 67,821 | 72,443 | 75,704 | 82,720 | 85,560 |
| 48  |          | 47,335 | 49,840 | 52,616 | 55,993 | 60,907 | 65,171 | 69,023 | 73,683 | 76,969 | 84,037 | 86,897 |
| 49  |          | 48,335 | 50,866 | 53,670 | 57,079 | 62,038 | 66,339 | 70,222 | 74,919 | 78,231 | 85,351 | 88,231 |
| 50  |          | 49,335 | 51,892 | 54,723 | 58,164 | 63,167 | 67,505 | 71,420 | 76,154 | 79,490 | 86,661 | 89,561 |
| 51  |          | 50,335 | 52,917 | 55,775 | 59,248 | 64,295 | 68,669 | 72,616 | 77,386 | 80,747 | 87,968 | 90,881 |
| 52  |          | 51,335 | 53,942 | 56,827 | 60,332 | 65,422 | 69,832 | 73,810 | 78,616 | 82,001 | 89,272 | 92,211 |
| 53  |          | 52,335 | 54,967 | 57,879 | 61,414 | 66,548 | 70,993 | 75,002 | 79,843 | 83,253 | 90,573 | 93,531 |
| 54  |          | 53,335 | 55,992 | 58,930 | 62,496 | 67,673 | 72,153 | 76,192 | 81,069 | 84,502 | 91,872 | 94,849 |
| 55  |          | 54,335 | 57,016 | 59,980 | 63,577 | 68,796 | 73,311 | 77,380 | 82,292 | 85,749 | 93,167 | 96,163 |