

**Table B** *t* Distribution Critical Values

| <i>df</i> | Confidence Level         |                          |                          |                          |                          |                          |
|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|           | 80%                      | 90%                      | 95%                      | 98%                      | 99%                      | 99.8%                    |
|           | Right-Tail Probability   |                          |                          |                          |                          |                          |
|           | <i>t</i> <sub>.100</sub> | <i>t</i> <sub>.050</sub> | <i>t</i> <sub>.025</sub> | <i>t</i> <sub>.010</sub> | <i>t</i> <sub>.005</sub> | <i>t</i> <sub>.001</sub> |
| 1         | 3.078                    | 6.314                    | 12.706                   | 31.821                   | 63.656                   | 318.289                  |
| 2         | 1.886                    | 2.920                    | 4.303                    | 6.965                    | 9.925                    | 22.328                   |
| 3         | 1.638                    | 2.353                    | 3.182                    | 4.541                    | 5.841                    | 10.214                   |
| 4         | 1.533                    | 2.132                    | 2.776                    | 3.747                    | 4.604                    | 7.173                    |
| 5         | 1.476                    | 2.015                    | 2.571                    | 3.365                    | 4.032                    | 5.894                    |
| 6         | 1.440                    | 1.943                    | 2.447                    | 3.143                    | 3.707                    | 5.208                    |
| 7         | 1.415                    | 1.895                    | 2.365                    | 2.998                    | 3.499                    | 4.785                    |
| 8         | 1.397                    | 1.860                    | 2.306                    | 2.896                    | 3.355                    | 4.501                    |
| 9         | 1.383                    | 1.833                    | 2.262                    | 2.821                    | 3.250                    | 4.297                    |
| 10        | 1.372                    | 1.812                    | 2.228                    | 2.764                    | 3.169                    | 4.144                    |
| 11        | 1.363                    | 1.796                    | 2.201                    | 2.718                    | 3.106                    | 4.025                    |
| 12        | 1.356                    | 1.782                    | 2.179                    | 2.681                    | 3.055                    | 3.930                    |
| 13        | 1.350                    | 1.771                    | 2.160                    | 2.650                    | 3.012                    | 3.852                    |
| 14        | 1.345                    | 1.761                    | 2.145                    | 2.624                    | 2.977                    | 3.787                    |
| 15        | 1.341                    | 1.753                    | 2.131                    | 2.602                    | 2.947                    | 3.733                    |
| 16        | 1.337                    | 1.746                    | 2.120                    | 2.583                    | 2.921                    | 3.686                    |
| 17        | 1.333                    | 1.740                    | 2.110                    | 2.567                    | 2.898                    | 3.646                    |
| 18        | 1.330                    | 1.734                    | 2.101                    | 2.552                    | 2.878                    | 3.611                    |
| 19        | 1.328                    | 1.729                    | 2.093                    | 2.539                    | 2.861                    | 3.579                    |
| 20        | 1.325                    | 1.725                    | 2.086                    | 2.528                    | 2.845                    | 3.552                    |
| 21        | 1.323                    | 1.721                    | 2.080                    | 2.518                    | 2.831                    | 3.527                    |
| 22        | 1.321                    | 1.717                    | 2.074                    | 2.508                    | 2.819                    | 3.505                    |
| 23        | 1.319                    | 1.714                    | 2.069                    | 2.500                    | 2.807                    | 3.485                    |
| 24        | 1.318                    | 1.711                    | 2.064                    | 2.492                    | 2.797                    | 3.467                    |
| 25        | 1.316                    | 1.708                    | 2.060                    | 2.485                    | 2.787                    | 3.450                    |
| 26        | 1.315                    | 1.706                    | 2.056                    | 2.479                    | 2.779                    | 3.435                    |
| 27        | 1.314                    | 1.703                    | 2.052                    | 2.473                    | 2.771                    | 3.421                    |
| 28        | 1.313                    | 1.701                    | 2.048                    | 2.467                    | 2.763                    | 3.408                    |
| 29        | 1.311                    | 1.699                    | 2.045                    | 2.462                    | 2.756                    | 3.396                    |
| 30        | 1.310                    | 1.697                    | 2.042                    | 2.457                    | 2.750                    | 3.385                    |
| 40        | 1.303                    | 1.684                    | 2.021                    | 2.423                    | 2.704                    | 3.307                    |
| 50        | 1.299                    | 1.676                    | 2.009                    | 2.403                    | 2.678                    | 3.261                    |
| 60        | 1.296                    | 1.671                    | 2.000                    | 2.390                    | 2.660                    | 3.232                    |
| 80        | 1.292                    | 1.664                    | 1.990                    | 2.374                    | 2.639                    | 3.195                    |
| 100       | 1.290                    | 1.660                    | 1.984                    | 2.364                    | 2.626                    | 3.174                    |
| ∞         | 1.282                    | 1.645                    | 1.960                    | 2.326                    | 2.576                    | 3.091                    |