

^{80}Kr $Z = 36$ $N = 44$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 695.434 (0.001) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|----------------|-----|----------|----------------|-------------------|
| 80KR 1 | 0.000 | 0+ | | | 1 STABLE |
| 80KR 2 | 0.617 | 2+ | | | 2 8.3 PS 5 |
| 80KR 3 | 1.256 | 2+ | | | 3 7.6 PS 14 |
| 80KR 4 | 1.321 | 0+ | | | 4 4.9 PS 21 |
| 80KR 5 | 1.436 | 4+ | | | 5 1.07 PS 15 |
| 80KR 6 | 1.788 | 3+ | | | 6 7.1 PS 9 |
| 80KR 7 | 2.146 | 4+ | | | 7 0.76 PS 42 |
| 80KR 8 | 2.392 | 6+ | | | 8 0.56 PS 14 |
| 80KR 9 | | | 2.439 3- | | 9 1.4 PS +14-5 |
| 80KR 10 | 2.660 | 5+ | | | 10 0.83 PS 28 |
| 80KR 11 | | | 2.793 4- | | 11 2.1 PS 4 |
| 80KR 12 | | | 2.860 5- | | 12 2.4 PS 11 |
| 80KR 13 | | | 2.969 3- | | 13 |
| 80KR 14 | | | | 2.998 | 14 |
| 80KR 15 | | | | 3.040 (5-) | 15 1.5 PS 4 |
| 80KR 16 | | | 3.042 6- | | 16 2.2 NS 2 |
| 80KR 17 | | | | 3.110 (6+) | 17 0.83 PS +62-35 |
| 80KR 18 | | | | 3.173 (5,6,7-) | 18 |
| 80KR 19 | | | 3.346 6- | | 19 4.9 PS 21 |
| 80KR 20 | 3.410 | 8+ | | | 20 0.28 PS +28-14 |
| 80KR 21 | | | | 3.488 (6-) | 21 |
| 80KR 22 | | | 3.530 7- | | 22 |
| 80KR 23 | | | | 3.559 (7)- | 23 |
| 80KR 24 | | | 3.582 7- | | 24 2.7 PS 3 |
| 80KR 25 | | | | 3.635 (7+) | 25 0.7 PS GE |
| 80KR 26 | 3.700 | 8+ | | | 26 |
| 80KR 27 | | | | 3.917 (8+) | 27 0.14 PS LE |
| 80KR 28 | | | | 4.126 (8-) | 28 1.7 PS GE |
| 80KR 29 | | | | 4.153 (8+) | 29 |
| 80KR 30 | | | | 4.163 (8-) | 30 |
| 80KR 31 | 4.378 | 10+ | | | 31 0.40 PS +8-7 |
| 80KR 32 | | | | 4.394 (9-) | 32 |
| 80KR 33 | | | | 4.562 (9-) | 33 |
| 80KR 34 | | | | 4.649 (10+) | 34 0.49 PS 21 |
| 80KR 35 | | | | 4.975 (10+) | 35 |
| S-alpha= | 5.066 (0.000) | | | | |
| 80KR 36 | | | | 5.159 (10-) | 36 |
| 80KR 37 | | | | 5.375 (10-) | 37 |

| | | | | | | | | | | | | |
|-------|----|--|-------|---|--------|-------|-------|-------|--|----|---------|------|
| 80KR | 38 | | | | | | 5.397 | (11-) | | 38 | | |
| 80KR | 39 | | 5.438 | | 12+ | | | | | 39 | 0.23 PS | +4-5 |
| 80KR | 40 | | | | | | | | | 40 | | |
| ----- | | | | | | | | | | | | |
| 80KR | 41 | | | | | | | | | 41 | | |
| 80KR | 42 | | | | | | | | | 42 | | |
| 80KR | 43 | | | | | | | | | 43 | | |
| 80KR | 44 | | 6.681 | | 14+ | | | | | 44 | 0.18 PS | +6-5 |
| 80KR | 45 | | | | | | | | | 45 | | |
| 80KR | 46 | | | | | | | | | 46 | | |
| 80KR | 47 | | | | | | | | | 47 | 0.21 PS | 8 |
| 80KR | 48 | | | | | | | | | 48 | | |
| S-p | = | | 9.114 | (| 0.001) | ----- | | | | | | |
| 80KR | 49 | | | | | | | | | 49 | | |
| 80KR | 50 | | | | | | | | | 50 | 0.12 PS | 5 |
| ----- | | | | | | | | | | | | |
| 80KR | 51 | | | | | | | | | 51 | | |
| 80KR | 52 | | | | | | | | | 52 | 0.10 PS | LT |

S-p = 9.114 (0.001)-----
 S-n = 11.522 (0.004)-----
 S-2p = 15.445 (0.001)-----
 S-2n = 19.858 (0.001)-----
 S-alpha= 5.066 (0.000)-----

S+p = -4.852 (0.005)
 S+n = -7.874 (0.001)
 S+2p = -12.695 (0.006)
 S+2n = -18.841 (0.001)
 S+alpha = -5.181 (0.001)

gap p = 4.262 (0.005)
 gap n = 3.648 (0.004)
 gap 2p = 2.751 (0.006)
 gap 2n = 1.017 (0.001)
 gap alpha = -0.115 (0.001)