

^{35}Ar $Z = 18$ $N = 17$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 291.461 (0.001) MeV

Qbeta+ = 5.966 (0.001) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|----------------|----------|-------------|----------------------|---------------|
| 35AR 1 | 0.000 | 3/2+ | | | 1 1.7756 S 10 |
| 35AR 2 | 1.184 | 1/2+ | | | 2 |
| 35AR 3 | | | | 1.751 (5/2)+ | 3 |
| 35AR 4 | 2.603 | 7/2+ | | | 4 |
| 35AR 5 | | | | 2.638 3/2+,5/2+ | 5 |
| 35AR 6 | | | | 2.983 3/2+,5/2+ | 6 |
| 35AR 7 | | | 3.197 7/2- | | 7 |
| 35AR 8 | 3.884 | 1/2+ | | | 8 |
| 35AR 9 | | | | 4.012 1/2-,3/2- | 9 |
| 35AR 10 | | | | 4.065 1/2+,3/2+,5/2+ | 10 |
| 35AR 11 | | | | 4.110 | 11 |
| 35AR 12 | | | | 4.142 1/2-,3/2- | 12 |
| 35AR 13 | | | 4.359 9/2- | | 13 |
| 35AR 14 | | | | 4.528 1/2+,3/2+,5/2+ | 14 |
| 35AR 15 | 4.726 | 1/2+ | | | 15 |
| 35AR 16 | 4.786 | 1/2+ | | | 16 |
| 35AR 17 | | | | 5.048 | 17 |
| 35AR 18 | | | | 5.113 3/2+,5/2+ | 18 |
| 35AR 19 | | | | 5.205 | 19 |
| 35AR 20 | | | 5.384 11/2- | | 20 |
| 35AR 21 | | | | 5.484 3/2+,5/2+ | 21 |
| 35AR 22 | 5.573 | 3/2 3/2+ | | | 22 |
| 35AR 23 | | | | 5.592 3/2+,5/2+ | 23 |
| 35AR 24 | | | | 5.613 (11/2-) | 24 |
| 35AR 25 | | | 5.766 13/2- | | 25 |
| S-p = | 5.896 (0.001) | | | | |
| 35AR 26 | | | | 5.911 | 26 |
| 35AR 27 | | | | 6.032 3/2+,5/2+ | 27 |
| 35AR 28 | | | | 6.153 | 28 |
| 35AR 29 | | | | 6.258 | 29 |
| S-alpha= | 6.430 (0.001) | | | | |
| 35AR 30 | 6.630 | 1/2+ | | | 30 |
| 35AR 31 | | | | 6.700 5/2-,7/2- | 31 |
| 35AR 32 | | | | 6.826 3/2+,5/2+ | 32 |
| 35AR 33 | | | | 6.959 | 33 |
| 35AR 34 | | | | 7.050 3/2+,5/2+ | 34 |
| 35AR 35 | | | | 7.117 | 35 |

| | | | | | | | |
|-------|----|--|-------|-------|-------|----------------|----|
| 35AR | 36 | | | | 7.293 | | 36 |
| 35AR | 37 | | | | 7.423 | | 37 |
| 35AR | 38 | | | | 7.504 | 1/2+,3/2+,5/2+ | 38 |
| 35AR | 39 | | | | 7.840 | | 39 |
| 35AR | 40 | | | | 8.019 | | 40 |
| ----- | | | | | | | |
| 35AR | 41 | | 8.109 | 15/2- | | | 41 |
| 35AR | 42 | | 8.212 | 15/2- | | | 42 |
| 35AR | 43 | | | | 8.395 | 1/2+,3/2+,5/2+ | 43 |
| 35AR | 44 | | 9.906 | 19/2- | | | 44 |

S-p = 5.896 (0.001)-----
 S-n = 12.740 (0.001)-----
 S-2p = 11.039 (0.001)-----
 S-2n = 29.806 (0.001)-----
 S-alpha= 6.430 (0.001)-----

S+p = -1.659 (0.001)
 S+n = -15.256 (0.001)
 S+2p = -4.667 (0.001)
 S+2n = -24.043 (0.001)
 S+alpha = -6.660 (0.001)

gap p = 4.237 (0.001)
 gap n = -2.515 (0.001)
 gap 2p = 6.373 (0.001)
 gap 2n = 5.763 (0.001)
 gap alpha = -0.231 (0.001)