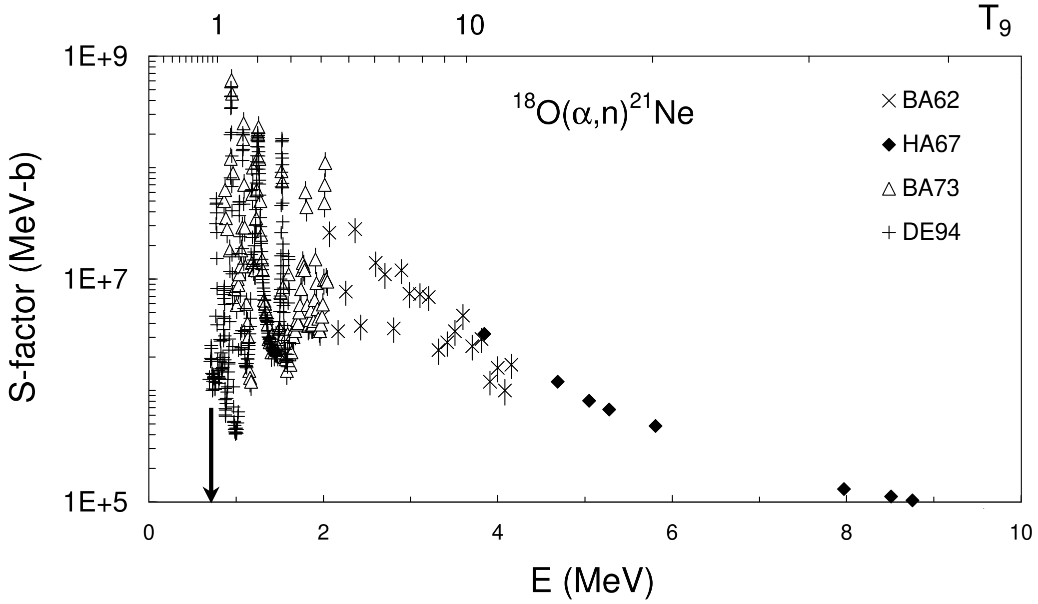
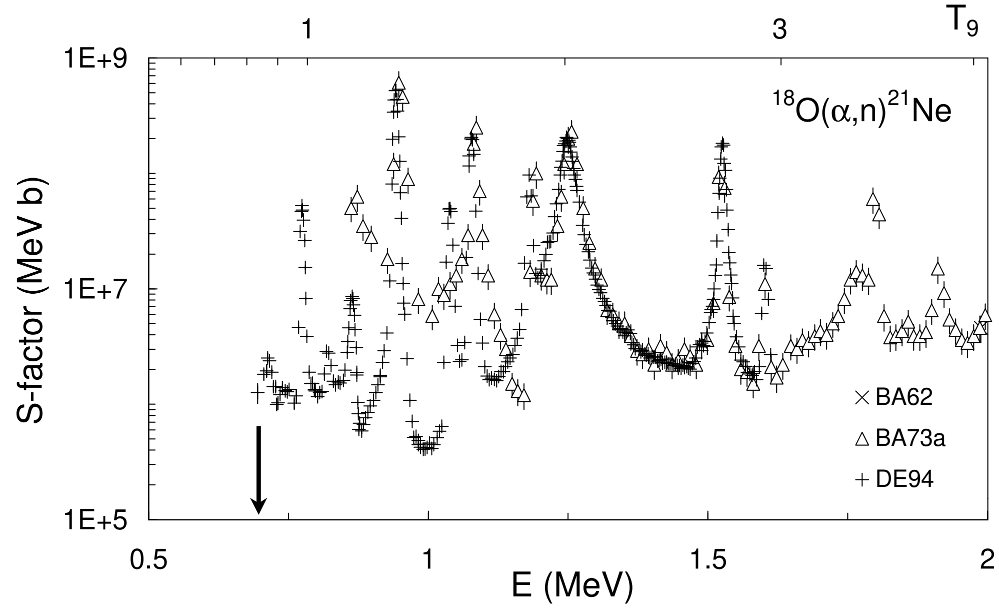
Reaction: ^{18}O(α,n)^{21}Ne

The rates are calculated from the data of BA62, HA67, BA73a and DE94b using a spline interpolation, covering the energy range from threshold ($Q = -0.697$ MeV) to 10.2 MeV. The results of DE94b are partially documented in KU95. At low energy, the data of DE94b are used only as the BA73 data may be affected by some background problems. The upper and lower limits of the rates are based on the uncertainties set by the experiments. The differences (up to a factor of 10) between the CA88 and adopted rates in the temperature range $0.14 \leq T_9 \leq 0.70$ are due to recent experimental data down to the threshold energy.





T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio
0.14	1.26	1.41	1.56	-24	0.1	0.5	2.35	2.41	2.47	-5	0.4	2.5	1.17	1.50	1.83	4	1.1
0.15	6.11	6.80	7.49	-23	0.1	0.6	7.36	7.53	7.70	-4	0.6	3	4.79	6.26	7.72	4	1.1
0.16	1.85	2.04	2.24	-21	0.1	0.7	9.53	9.76	9.98	-3	0.8	3.5	1.39	1.83	2.27	5	1.1
0.18	5.61	6.14	6.66	-19	0.1	0.8	7.00	7.18	7.35	-2	0.9	4	3.22	4.25	5.29	5	1.1
0.2	5.62	6.08	6.54	-17	0.1	0.9	3.48	3.58	3.68	-1	1.0	5	1.12	1.47	1.83	6	1.1
0.25	2.50	2.66	2.81	-13	0.2	1	1.31	1.36	1.40	0	1.0	6	2.71	3.55	4.38	6	1.1
0.3	7.98	8.36	8.73	-11	0.2	1.25	1.64	1.75	1.85	1	1.0	7	5.33	6.89	8.45	6	1.2
0.35	5.86	6.07	6.29	-9	0.2	1.5	1.07	1.20	1.32	2	0.9	8	0.91	1.16	1.42	7	1.3
0.4	1.69	1.74	1.80	-7	0.2	1.75	4.82	5.69	6.55	2	1.0	9	1.42	1.78	2.15	7	1.4
0.45	2.54	2.61	2.68	-6	0.3	2	1.69	2.07	2.45	3	1.0	10	2.04	2.54	3.04	7	1.6