

Photoelectric effect. Work function, threshold wavelength and threshold frequency

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Element	Work function W_0		Threshold wavelength λ_0 nm	Threshold frequency f_0 Hz
	eV	J		
Ag	4.73	$7.58 \cdot 10^{-19}$	262	$1.14 \cdot 10^{15}$
Al	4.08	$6.54 \cdot 10^{-19}$	304	$9.87 \cdot 10^{14}$
As	3.75	$6.01 \cdot 10^{-19}$	331	$9.07 \cdot 10^{14}$
Au	5.1	$8.2 \cdot 10^{-19}$	243	$1.2 \cdot 10^{15}$
Ba	2.7	$4.3 \cdot 10^{-19}$	459	$6.5 \cdot 10^{14}$
Be	4.98	$7.98 \cdot 10^{-19}$	249	$1.20 \cdot 10^{15}$
Bi	4.34	$6.95 \cdot 10^{-19}$	286	$1.05 \cdot 10^{15}$
C	5	$8 \cdot 10^{-19}$	248	$1.2 \cdot 10^{15}$
Ca	2.87	$4.60 \cdot 10^{-19}$	432	$6.94 \cdot 10^{14}$
Cd	4.08	$6.54 \cdot 10^{-19}$	304	$9.87 \cdot 10^{14}$
Ce	2.9	$4.7 \cdot 10^{-19}$	428	$7.0 \cdot 10^{14}$
Co	5	$8.0 \cdot 10^{-19}$	248	$1.2 \cdot 10^{15}$
Cr	4.5	$7.2 \cdot 10^{-19}$	276	$1.1 \cdot 10^{15}$
Cs	2.14	$3.43 \cdot 10^{-19}$	579	$5.17 \cdot 10^{14}$
Cu	4.7	$7.5 \cdot 10^{-19}$	264	$1.1 \cdot 10^{15}$
Fe	4.81	$7.71 \cdot 10^{-19}$	258	$1.16 \cdot 10^{15}$
Ga	4.32	$6.92 \cdot 10^{-19}$	287	$1.04 \cdot 10^{15}$
Hg	4.475	$7.170 \cdot 10^{-19}$	277.1	$1.082 \cdot 10^{15}$
K	2.29	$3.67 \cdot 10^{-19}$	541	$5.54 \cdot 10^{14}$
La	3.5	$5.6 \cdot 10^{-19}$	354	$8.5 \cdot 10^{14}$
Li	2.93	$4.69 \cdot 10^{-19}$	423	$7.08 \cdot 10^{14}$
Mg	3.66	$5.86 \cdot 10^{-19}$	339	$8.85 \cdot 10^{14}$
Mn	4.1	$6.6 \cdot 10^{-19}$	302	$9.9 \cdot 10^{14}$
Mo	4.95	$7.93 \cdot 10^{-19}$	250	$1.20 \cdot 10^{15}$
Na	2.36	$3.78 \cdot 10^{-19}$	525	$5.71 \cdot 10^{14}$
Nb	4.3	$6.9 \cdot 10^{-19}$	288	$1.0 \cdot 10^{15}$
Ni	5.35	$8.57 \cdot 10^{-19}$	232	$1.29 \cdot 10^{15}$
Os	5.93	$9.50 \cdot 10^{-19}$	209	$1.43 \cdot 10^{15}$
Pb	4.25	$6.81 \cdot 10^{-19}$	292	$1.03 \cdot 10^{15}$
Pd	5.6	$9.0 \cdot 10^{-19}$	221	$1.4 \cdot 10^{15}$
Pt	5.93	$9.50 \cdot 10^{-19}$	209	$1.43 \cdot 10^{15}$
Rb	2.261	$3.623 \cdot 10^{-19}$	548.4	$5.467 \cdot 10^{14}$
Re	4.72	$7.56 \cdot 10^{-19}$	263	$1.14 \cdot 10^{15}$

Element	Work function W_0		Threshold wavelength λ_0 nm	Threshold frequency f_0 Hz
	eV	J		
Sb	4.7	$7.5 \cdot 10^{-19}$	263	$1.1 \cdot 10^{15}$
Sc	3.5	$5.6 \cdot 10^{-19}$	354	$8.5 \cdot 10^{14}$
Se	5.9	$9.5 \cdot 10^{-19}$	210	$1.4 \cdot 10^{15}$
Si	4.85	$7.77 \cdot 10^{-19}$	256	$1.17 \cdot 10^{15}$
Sn	4.42	$7.08 \cdot 10^{-19}$	281	$1.07 \cdot 10^{15}$
Sr	2.59	$4.15 \cdot 10^{-19}$	479	$6.26 \cdot 10^{14}$
Te	4.95	$7.93 \cdot 10^{-19}$	250	$1.20 \cdot 10^{15}$
Ti	4.33	$6.94 \cdot 10^{-19}$	286	$1.05 \cdot 10^{15}$
U	3.90	$6.25 \cdot 10^{-19}$	318	$9.43 \cdot 10^{14}$
V	4.3	$6.9 \cdot 10^{-19}$	288	$1.0 \cdot 10^{15}$
W	5.22	$8.36 \cdot 10^{-19}$	238	$1.26 \cdot 10^{15}$
Zn	4.3	$6.9 \cdot 10^{-19}$	288	$1.0 \cdot 10^{15}$
Zr	4.05	$6.49 \cdot 10^{-19}$	306	$9.79 \cdot 10^{14}$