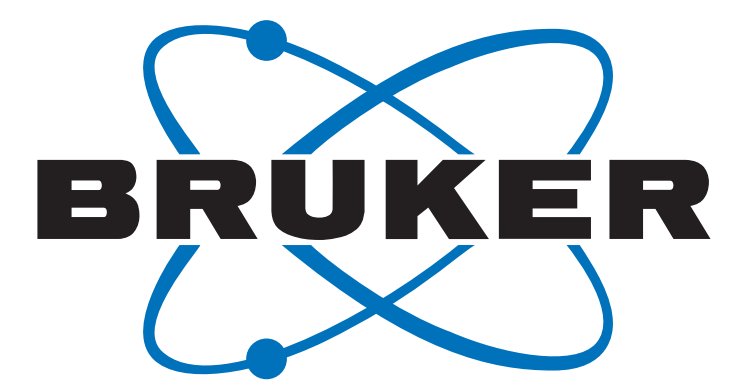


Advanced X-Ray Solutions

Energy Dispersive X-Ray Spectrometers • Energiedispersive Röntgenspektrometer



Z	Element	Ec(K)	K α_1	K α_2	K β_1	K β_2	(L)	(M)	Ec(L $_1$)	L α_1	L β_1	L β_2	L γ_1	LI	L γ_2	(K)	(M)	Ec(M $_1$)	M α_1	M β	M ζ	M γ	M $_1$ -N $_1$	(K)	(L)	Density	Element	Z			
3	Li	Lithium	0.055																								0.53	Lithium	Li	3	
4	Be	Beryllium	0.112	0.108	0.108																							1.85	Beryllium	Be	4
5	B	Boron	0.188	0.183	0.183																							2.34	Bor	B	5
6	C	Carbon	0.284	0.277	0.277																							2.26	Kohlenstoff	C	6
7	N	Nitrogen	0.410	0.392	0.392																							0.81	Stickstoff	N	7
8	O	Oxygen	0.543	0.525	0.525																							1.14	Sauerstoff	O	8
9	F	Fluorine	0.697	0.677	0.677																							1.70	Fluor	F	9
10	Ne	Neon	0.870	0.849	0.849																							1.21	Neon	Ne	10
11	Na	Sodium	1.071	1.040	1.040																							0.97	Natrium	Na	11
12	Mg	Magnesium	1.303	1.254	1.253	1.302								0.047														1.74	Magnesium	Mg	12
13	Al	Aluminium	1.559	1.486	1.486	1.557								0.069														2.70	Aluminium	Al	13
14	Si	Silicon	1.839	1.740	1.739	1.837								0.091														2.33	Silizium	Si	14
15	P	Phosphorus	2.146	2.010	2.010	2.139								0.123														1.82	Phosphor	P	15
16	S	Sulfur	2.472	2.309	2.308	2.465								0.148														2.07	Schwefel	S	16
17	Cl	Chlorine	2.822	2.622	2.620	2.812								0.182														1.56	Chlor	Cl	17
18	Ar	Argon	3.206	2.958	2.955	3.190								0.219														1.40	Argon	Ar	18
19	K	Potassium	3.608	3.314	3.311	3.590								0.260														0.86	Kalium	K	19
20	Ca	Calcium	4.038	3.692	3.689	4.013								0.302														1.55	Calcium	Ca	20
21	Sc	Scandium	4.492	4.093	4.088	4.464								0.348														2.99	Scandium	Sc	21
22	Ti	Titanium	4.966	4.512	4.506	4.933								0.395														4.54	Titan	Ti	22
23	V	Vanadium	5.465	4.953	4.945	5.428								0.446														6.11	Vanadium	V	23
24	Cr	Chromium	5.989	5.415	5.405	5.947								0.500														7.19	Chrom	Cr	24
25	Mn	Manganese	6.539	5.900	5.889	6.492								0.556														7.44	Mangan	Mn	25
26	Fe	Iron	7.112	6.405	6.392	7.059								0.616														7.87	Eisen	Fe	26
27	Co	Cobalt	7.709	6.931	6.916	7.649								0.677														8.90	Kobalt	Co	27
28	Ni	Nickel	8.333	7.480	7.463	8.267								0.742														8.90	Nickel	Ni	28
29	Cu	Copper	8.979	8.046	8.027	8.904								0.810														8.96	Kupfer	Cu	29
30	Zn	Zinc	9.659	8.637	8.614	9.570								0.882														7.13	Zink	Zn	30
31	Ga	Gallium	10.367	9.251	9.224	10.267								0.957	1.297													5.91	Gallium	Ga	31
32	Ge	Germanium	11.103	9.886	9.855	10.982								1.037	1.412													5.32	Germanium	Ge	32
33	As	Arsenic	11.867	10.543	10.508	11.726	11.864							1.119	1.524													5.78	Arsen	As	33
34	Se	Selenium	12.658	11.224	11.184	12.497	12.655							1.204	1.649													4.79	Selen	Se	34
35	Br	Bromine	13.474	11.924	11.878	13.292	13.471							1.293	1.779													3.12	Brom	Br	35
36	Kr	Krypton	14.326	12.648	12.595	14.112	14.312							1.386	1.907													3.60	Krypton	Kr	36
37	Rb	Rubidium	15.200	13.396	13.336	14.961	15.184							1.477	2.050													1.53	Rubidium	Rb	37
38	Sr	Strontium	16.105	14.165	14.098	15.835	16.083							1.581	2.196													2.54	Strontium	Sr	38
39	Y	Yttrium	17.038	14.958	14.882	16.739	17.014							1.688	2.350													4.47	Yttrium	Y	39
40	Zr	Zirconium	17.998	15.775	15.691	17.668	17.970							1.793	2.505													6.51	Zirkonium	Zr	40
41	Nb	Niobium	18.986	16.615	16.521	18.625	18.953							1.904	2.667													8.57	Niob	Nb	41
42	Mo	Molybdenum	20.000	17.480	17.375	19.606	19.962							2.014	2.830													10.22	Molybdän	Mo	42
43	Tc	Technetium	21.044	18.367	18.251	20.626	21.002							2.133	3.003													11.50	Technetium	Tc	43
44	Ru	Ruthenium	22.117	19.279	19.150	21.656	22.071							2.263	3.181													12.37	Ruthenium	Ru	44
45	Rh	Rhodium	23.220	20.216	20.074	22.724	23.169							2.376	3.365													12.41	Rhodium	Rh	45
46	Pd	Palladium	24.350	21.177	21.020	23.818	24.294							2.501	3.553													12.00	Palladium	Pd	46
47	Ag	Silver	25.514	22.163	21.990	24.941	25.450							2.632	3.748													10.50	Silber	Ag	47
48	Cd	Cadmium	26.711	23.173	22.984	26.093	26.647							2.766	3.954													8.65	Cadmium	Cd	48
49	In	Indium	27.940	24.210	24.002	27.275	27.866							2.903	4.165													7.31	Indium	In	49
50	Sn	Tin	29.200	25.271	25.044	28.485	29.116							3.044	4.381													7.27	Zinn	Sn	50
51	Sb	Antimony	30.491	26.359	26.111	29.725	30.395							3.192	4.602													6.69	Antimon	Sb	51
52	Te	Tellurium	31.814	27.473	27.202	30.993	31.711							3.329	4.836													6.24	Tellur	Te	52
53	I	Iodine	33.169	28.612	28.317	32.294	33.046							3.485	5.065													4.93	Jod	I	53
54	Xe	Xenon	34.561	29.775	29.454	33.620	34.414							3.637	5.308													3.20	Xenon	Xe	54
55	Cs	Cesium	35.983	30.973	30.626	34.982	35.813							3.791	5.553													1.87	Cäsium	Cs	55
56	Ba	Barium	37.441	32.194	31.817	36.378	37.249							3.954	5.810													3.59	Barium	Ba	56
57	La	Lanthanum	38.925	33.442	33.034	37.797	38.719							4.121	6.070													6.15	Lanthan	La	57
58	Ce	Cerium	40.443	34.720	34.279	39.256	40.220							4.287	6.341													6.77	Cer	Ce	58
59	Pr	Praseodymium	41.991	36.027	35.551	40.749	41.755							4.453	6.617													29	Praseodym	Pr	59
60	Nd	Neodymium	43.569	37.361	36.847	42.272	43.326							4.620	6.901													7.01	Neodym	Nd	60
61	Pm	Promethium	45.184	38.725	38.171	43.827	44.942							4.788	7.186													7.22	Promethium	Pm	61
62	Sm	Samarium	46.834	40.118	39.522	45.414	46.568							4.957	7.490													31	Samarium	Sm	62
63	Eu	Europium	48.519	41.542	40.902	47.038	48.235							5.127	7.795													5.24	Europium	Eu	63
64	Gd	Gadolinium	50.239	42.996	42.309	48.695	49.953							5.302	8.105													7.90	Gadolinium	Gd	64
65	Tb	Terbium	51.996	44.482	43.744	50																									