



Agilent Technologies

AA Performance Figures

AA140/240/280

SpectrAA 50/55/110/220/880

Flame

Units are $\mu\text{g/L}$.

Element	Wavelength λ (nm)	Limits of Detection		Characteristic Concentration	
		Standard HCL	UltrAA HCL	Standard HCL	UltrAA HCL
Ag	328.1	1.7		24	
Ag	338.3	28		334	
Al	309.3	20		520	
Al	396.1				
As	193.7	42	18	772	474
As	197.2	60	47	1090	1070
As	189.0	74	45	521	513
Au	242.8	5.3		88	
Au	267.6	11		198	
B	249.8	473		6930	
Ba	553.6	7		170	
Be	234.9	0.5		10	
Bi	223.1	31		98	
Bi	227.7	64	44	235	176
Ca	422.7	0.4		15	

Cd	228.8	1.5	1.6	8	8.2
Ce					
Co	240.7	5.0	3.0	53	52
Co	304.4				
Cr	357.9	5		80	70
Cr	425.4	237	160	1120	440
Cs	852.1	6.9		54	
Cu	324.8	1.2	0.63	27	24
Cu	327.4	2.4	1.6	58	50
Dy	421.2				
Er	400.8				
Eu	459.4				
Fe	248.3	7.3		35	
Fe	372.0	50		554	
Ga	294.4	38		810	
Gd	368.4				
Ge	265.2	75		750	
Hf	307.3				
Hg	253.7				
Ho	410.4				
In	303.9	16		237	
Ir	208.9				
K	766.5	0.76		4.7	
K	769.9	4		28	
La	550.1	1400		15000	
Li	670.8	0.87		28.6	
Lu	336.0				
Mg	285.2	0.27		4.1	
Mg	202.5				
Mn	279.5	1.0		8.1	
Mn	403.1				
Mo	313.3	15		200	
Na	589.0	0.26		3.1	
Na	589.6	0.41		8.3	

Na	330.3				
Nb	334.9				
Nd	492.5				
Ni	232.0	5.8		28	
Ni	341.5				
Ni	352.4				
Os	290.9				
P	213.6	26000		120000	
Pb	217.0	14		55	
Pb	283.3	15	7	241	213
Pd	244.8	15		120	
Pd	247.6	15		95	
Pr	495.1				
Pt	265.9	76		812	
Rb	780.0	4.3		18	
Rb	794.8	23		79	
Re	346.1	464		4940	
Rh	343.5	4		76	
Ru	349.9				
Sb	217.6	37		143	
Sb	206.8	194		375	
Sc	391.2				
Se	196.0				
Si	251.6	70		800	
Sm	429.7				
Sn	235.5	140	83	690	1240
Sn	286.3	200	95	2420	1788
Sr	460.7				
Ta	271.5	600		6800	
Tb	432.7				
Te	214.3	41		151	
Th					
Ti	364.3	50		1200	
Tl	276.8	15	14	196	

Tm	371.8				
U	358.5				
V	318.5	20		500	
W	255.1	950		6870	
Y	410.2				
Yb	398.8				
Zn	213.9	1.6		6.7	
Zr	360.1	450		5700	

Notes:

- Standard conditions as set out in "Analytical Methods for Flame Atomic Absorption Spectroscopy" (Publication 8510000900) were used.



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