

Molar Mass from Isotope Data Worksheet 4

Calculate the molar mass of the following elements using the data given.

Atom	Isotope	Molar Mass (g/mol)	Abundance
(1) Boron	Boron-10	10.013	19.80%
	Boron-11	11.009	80.20%
(2) Copper	Copper-63	62.930	69.17%
	Copper-65	64.928	30.83%
(3) Silver	Silver-107	106.905	51.84%
	Silver-109	108.905	48.16%
(4) Neon	Neon-20	19.992	90.60%
	Neon-21	20.994	0.26%
	Neon-22	21.991	9.14%
(5) Chromium	Chromium-50	49.946	4.35%
	Chromium-52	51.941	83.79%
	Chromium-53	52.941	9.50%
	Chromium-54	53.939	2.36%
(6) Lead	Lead-204	203.973	1.40%
	Lead-206	205.974	24.10%
	Lead-207	206.976	22.10%
	Lead-208	207.977	52.40%
(7) Nickel	Nickel-58	57.935	68.27%
	Nickel-60	59.931	26.10%
	Nickel-61	60.931	1.13%
	Nickel-62	61.928	3.59%
	Nickel-64	63.928	0.91%
(8) Selenium	Selenium-74	73.922	0.90%
	Selenium-76	75.919	9.00%
	Selenium-77	76.920	7.60%
	Selenium-78	77.917	23.50%
	Selenium-80	79.917	49.60%
	Selenium-82	81.917	9.40%