

# Reference Density Values for Various Substances

Name \_\_\_\_\_

Elements	solid density (g/ml)	liquid density (g/ml)	Substances	liquid density (g/ml)	solid density (g/ml)
arsenic	4.70	5.22 *	acetone	0.79	more than the liquid
aluminum	2.70	less than the solid	methyl alcohol	0.81	more than the liquid
barium	3.50	less than the solid	ethyl alcohol	0.79	more than the liquid
bismuth	9.80	10.07 *	benzene	0.88	more than the liquid
cadmium	8.65	less than the solid	isopropyl alcohol	0.78	more than the liquid
chromium	7.18	less than the solid	carbon tetrachloride	1.60	more than the liquid
copper	8.96	less than the solid	castor oil	0.97	more than the liquid
gallium	5.90	6.09 *	olive oil	0.92	more than the liquid
germanium	5.32	5.60 *	vegetable oil	0.82	more than the liquid
gold	19.3	less than the solid	gasoline	~0.67	more than the liquid
iron	7.87	less than the solid	glass	2.5	more than the liquid
lead	11.35	less than the solid	glycerine	1.26	more than the liquid
mercury	more than the liquid	13.55	kerosene	0.82	more than the liquid
nickel	8.90	less than the solid	corn syrup	1.45	more than the liquid
platinum	21.45	less than the solid	milk	~1.03	more than the liquid
potassium	0.862	less than the solid	sea water	~1.03	more than the liquid
silicon	2.33	2.51 *	water	1.0	0.92 **
silver	10.50	less than the solid			
sodium	0.971	less than the solid			
tin	7.13	less than the solid			
zinc	7.13	less than the solid			

\*\* Note: water is the only known compound for which the density of the solid is less than the density of the liquid

\* Note: The density of the solid form of most elements is more dense than the liquid form. Those elements above for which values are given are exceptions to the rule.