

**Table 9.1****SOUND SPEED OF VARIOUS MATERIALS AT 60°F (15.5°C) AND 1 atm**

Material	$a$ , ft/s	$a$ , m/s
<b>Gases:</b>		
H <sub>2</sub>	4,246	1294
He	3,281	1000
Air	1,117	340
Ar	1,040	317
CO <sub>2</sub>	873	266
CH <sub>4</sub>	607	185
<sup>238</sup> UF <sub>6</sub>	297	91
<b>Liquids:</b>		
Glycerin	6,100	1860
Water	4,890	1490
Mercury	4,760	1450
Ethyl alcohol	3,940	1200
<b>Solids:†</b>		
Aluminum	16,900	5150
Steel	16,600	5060
Hickory	13,200	4020
Ice	10,500	3200

† Plane waves. Solids also have a *shear-wave speed*.