

Mineral Requirements of Sheep from National Research Council (<http://books.nap.edu/>)  
[Nutrient Requirements of Sheep, Sixth Revised Edition, 1985 \(1985\)](#)

**TABLE 6 Macromineral Requirements of Sheep (percentage of diet dry matter)<sup>a</sup>**

Nutrient	Requirement
Sodium	0.09-0.18
Chlorine	—
Calcium	0.20-0.82
Phosphorus	0.16-0.38
Magnesium	0.12-0.18
Potassium	0.50-0.80
Sulfur	0.14-0.26

<sup>a</sup>Values are estimates based on experimental data.

**TABLE 7 Micromineral Requirements of Sheep and Maximum Tolerable Levels (ppm, mg/kg of diet dry matter)<sup>a</sup>**

Nutrient	Requirement	Maximum Tolerable Level <sup>b</sup>
Iodine	0.10-0.80 <sup>c</sup>	50
Iron	30-50	500
Copper	7-11 <sup>d</sup>	25 <sup>e</sup>
Molybdenum	0.5	10 <sup>e</sup>
Cobalt	0.1-0.2	10
Manganese	20-40	1,000
Zinc	20-33	750
Selenium	0.1-0.2	2
Fluorine	—	60-150

<sup>a</sup>Values are estimates based on experimental data.

<sup>b</sup>NRC (1980).

<sup>c</sup>High level for pregnancy and lactation in diets not containing goitrogens; should be increased if diets contain goitrogens.

<sup>d</sup>Requirement when dietary Mo concentrations are <1 mg/kg DM. See text for requirements under other circumstances.

<sup>e</sup>Lower levels may be toxic under some circumstances. See text.