

Exercise V

1) Aluminum is composed of larger and lighter atoms than silicon. Why is the density of Al larger than that of Si ?

2) Why is graphite conducting, but diamond not?

3) Which of the following compounds does not exist?



4) Which of the following compounds is able to oxidize aluminum?



5) Which of the following values is a reasonable internal surface for activated charcoal?

$$1000 \text{ m}^2/\text{kg}$$

$$1000 \text{ cm}^2/\text{g}$$

$$1000 \text{ m}^2/\text{g}$$

$$1000 \text{ cm}^2/\text{kg}$$