

## T1 Alcohol Lamp

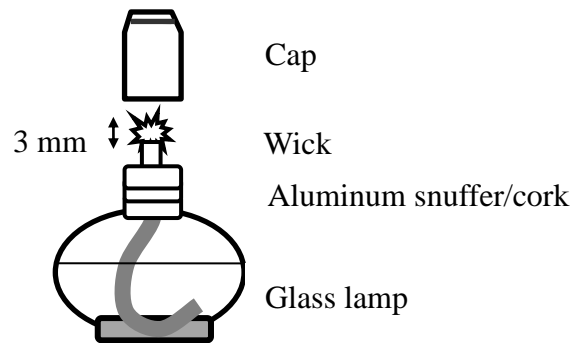


Figure T1-1 Parts of alcohol lamp

The wick-type alcohol lamp has a glass body with aluminum cap and aluminum snuffer cover or cork.

### Operation

1. Inspect the lamp before each use to make sure there are no cracks, chips or defects in the glass body.
2. Adjust the wick height to about 3 mm from the top of the cork.
3. Fill the lamp with denatured or 95% ethanol through a suitable funnel to about half full.
4. Light the alcohol lamp with a match.
5. Use the lamp only in an upright position.
6. Keep all combustible materials (clothing, paper, books, and chemicals, etc.) away from the lamp when in use.
7. Adjust device upon heating to an appropriate height.
8. Never use book or other items to raise the alcohol lamp.
9. Use windshield to block wind and do not use books. Do not tilt lamp to avoid alcohol leakage while heating.
10. After use, cap should be put on to insulate air and extinguish the flame instead of blow it out. If lamp will not be used for a long time, alcohol inside should be returned to storage bottle.
11. If lamp is overturned and cause small fire, cover the fire with a wet rag immediately, and do not remove the rag until the fire is extinguished completely, otherwise flame may ignite again. Use fire extinguisher instead if a big fire

happens. After fire is extinguished, open doors, windows and exhausts to expel alcohol vapor in lab.

### References

1. Kurt Irgolic; Larry Peck; Rod O'Connor *Fundamentals of Chemistry in the Laboratory*; abridged second edition; Burgess Publishing Company: Minnesota
2. <https://www.mccrone.com/mm/how-to-make-modify-and-use-an-alcohol-lamp/>
3. <https://www.homesciencetools.com/content/reference/CE-LAMP2%20for%20Web.pdf>