



>>Entry Name: 5-Decen-1-ol

$\text{H}_3\text{C}(\text{CH}_2)_3\text{CH}=\text{CH}(\text{CH}_2)_3\text{CH}_2\text{OH}$

**Molecular Formula:**  $\text{C}_{10}\text{H}_{20}\text{O}$

**Molecular Weight:** 156.267

**Accurate Mass:** 156.151415

**Percentage Composition:** C 76.86%; H 12.90%; O 10.24%

>>Variant: (*E*)-form

**CAS Registry Number:** 56578-18-8

**Molecular Formula:**  $\text{C}_{10}\text{H}_{20}\text{O}$

**Molecular Weight:** 156.267

**Accurate Mass:** 156.151415

**Percentage Composition:** C 76.86%; H 12.90%; O 10.24%

**Biological Source:** Pheromone of the moth *Anarsia lineatella*

**Use/Importance:** Lure for pest control

**Physical Description:** Unpleasant smelling liq.

**Boiling Point:**  $\text{Bp}_{14}$  114-115°.  $\text{Bp}_{0.15}$  83-85°

**Other Data:** Commercial products contain both (*E*)-Ac and (*E*)-alcohol

**Aldrich:** 28472-6

**Sigma:** D7898

>>Derivative: Ac

**CAS Registry Number:** 38421-90-8

**Molecular Formula:**  $\text{C}_{12}\text{H}_{22}\text{O}_2$

**Molecular Weight:** 198.305

**Accurate Mass:** 198.16198

**Percentage Composition:** C 72.68%; H 11.18%; O 16.14%

**Boiling Point:**  $\text{Bp}_{14}$  85-105°

**Refractive Index:**  $n_D^{20}$  1.4390

>>Variant: (*Z*)-form

**CAS Registry Number:** 51652-47-2

**Molecular Formula:**  $\text{C}_{10}\text{H}_{20}\text{O}$

**Molecular Weight:** 156.267

**Accurate Mass:** 156.151415

**Percentage Composition:** C 76.86%; H 12.90%; O 10.24%

**Physical Description:** Unpleasant-smelling liq.

**Boiling Point:**  $\text{Bp}_{14}$  114-115°.  $\text{Bp}_{0.2}$  100-105°

>>Derivative: Ac

**CAS Registry Number:** 67446-07-5

**Molecular Formula:**  $\text{C}_{12}\text{H}_{22}\text{O}_2$

**Molecular Weight:** 198.305

**Percentage Composition:** C 72.68%; H 11.18%; O 16.14%

**Biological Source:** Pheromone of female moth *Agrotis fucosa*

**Sigma:** D7520

>>Derivative: 3-Methylbutanoyl

**CAS Registry Number:** 37616-04-9

**Molecular Formula:**  $\text{C}_{15}\text{H}_{28}\text{O}_2$

**Molecular Weight:** 240.385

**Accurate Mass:** 240.20893

**Percentage Composition:** C 74.95%; H 11.74%; O 13.31%

**Biological Source:** Sex pheromone from the female pine emperor moth *Nudaurelia cytherea cytherea*

**References:**