



>>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: 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: 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: 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: