



>>Entry Name: 3-Tridecanol

Synonym(s): 3-Hydroxytridecane

CAS Registry Number: 10289-68-6

Extra CAS Registry Numbers(s): 26248-42-0

$\text{H}_3\text{C}(\text{CH}_2)_9\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$

Molecular Formula: $\text{C}_{13}\text{H}_{28}\text{O}$

Molecular Weight: 200.364

Accurate Mass: 200.214015

Percentage Composition: C 77.93%; H 14.08%; O 7.99%

>>Variant: (+)-form

CAS Registry Number: 124078-92-8

Molecular Formula: $\text{C}_{13}\text{H}_{28}\text{O}$

Molecular Weight: 200.364

Accurate Mass: 200.214015

Percentage Composition: C 77.93%; H 14.08%; O 7.99%

Melting Point: Mp 32°

Boiling Point: Bp₁₂ 139°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +12.4$

>>Derivative: Hydrogen phthalate

Melting Point: Mp 35-35.5°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +17.6$ (EtOH)

>>Variant: (–)-form

CAS Registry Number: 54831-34-4

Molecular Formula: $\text{C}_{13}\text{H}_{28}\text{O}$

Molecular Weight: 200.364

Accurate Mass: 200.214015

Percentage Composition: C 77.93%; H 14.08%; O 7.99%

Melting Point: Mp 32°

Boiling Point: Bp₁₅ 140°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -6.7$ (EtOH)

>>Derivative: Hydrogen phthalate

Melting Point: Mp 35-35.5°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -17.7$ (EtOH)

>>Variant: (±)-form

Molecular Formula: $\text{C}_{13}\text{H}_{28}\text{O}$

Molecular Weight: 200.364

Accurate Mass: 200.214015

Percentage Composition: C 77.93%; H 14.08%; O 7.99%

Melting Point: Mp 14.5°

Boiling Point: Bp₂₀ 148°

>>Derivative: Hydrogen phthalate

Melting Point: Mp 46-47°

References:

Pickard, R.H. *et al.*, *J.C.S.*, 1913, **103**, 1948, (*synth*)

Yosioka, I. *et al.*, *Chem. Pharm. Bull.*, 1974, **22**, 1943, (*isol*)

Krupcik, J. *et al.*, *Petrochemia*, 1975, **15**, 137