>>**Entry Name: 5-Hydroxy-4-octanone,** 9CI
ENTRY UNDER REVIEW
Synonym(s): Butyroin. FEMA 1380

CAS Registry Number: 496-77-5
Related CAS Registry Numbers(s): 86838-18-8 116214-05-2

$H_3CCH_2CH_2CH(OH)COCH_2CH_2CH_3$

Molecular Formula: $C_8H_{16}O_2$
Molecular Weight: 144.213
Accurate Mass: 144.11503
Percentage Composition: C 66.63%; H 11.18%; O 22.19%
Use/Importance: Flavouring ingredient
Physical Description: Oil with a sweet, slightly pungent, buttery/nut-like odour and a sweet, oily taste
Density: d^{20} 0.92
Refractive Index: n_D^{20} 1.4290

Aldrich: W25870-9

>>**Variant:** (±)-form

CAS Registry Number: 116296-89-0
Molecular Formula: $C_8H_{16}O_2$
Molecular Weight: 144.213
Accurate Mass: 144.11503
Percentage Composition: C 66.63%; H 11.18%; O 22.19%
Physical Description: Oil
Boiling Point: Bp 180-190°. Bp_4 62-63°

>>**Derivative:** Ac

Molecular Formula: $C_{10}H_{18}O_3$
Molecular Weight: 186.25
Accurate Mass: 186.125595
Percentage Composition: C 64.49%; H 9.74%; O 25.77%
Physical Description: Oil
Boiling Point: Bp_7 90-92°

>>**Derivative:** Oxime

Molecular Formula: $C_8H_{17}NO_2$
Molecular Weight: 159.228
Accurate Mass: 159.125929
Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%
Physical Description: Oil
Boiling Point: Bp_{10} 143°

References:
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Tamao, K. *et al.*, *Tet. Lett.*, 1986, **27**, 65-68, *(synth)*
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