



>>Entry Name: 4-Amino-4-methyl-2-pentanone, 9CI

Synonym(s): Diacetoneamine

CAS Registry Number: 625-04-7

$(\text{H}_3\text{C})_2\text{C}(\text{NH}_2)\text{CH}_2\text{COCH}_3$

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}$

Molecular Weight: 115.175

Accurate Mass: 115.099714

Percentage Composition: C 62.57%; H 11.38%; N 12.16%; O 13.89%

Biological Source: Isol. from *Genista hystrix*, *Genista hystrix* ssp. *hystrix* and *Genista hystrix* ssp. *legionensis*

Boiling Point: Bp 178-181°. Bp_{0.2} 25°

Solubility: Mod. sol. H_2O

Other Data: Prob. an artifact

Aldrich: 18025-4

>>Derivative: Oxime

CAS Registry Number: 69151-99-1

Molecular Formula: $\text{C}_6\text{H}_{14}\text{N}_2\text{O}$

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

Physical Description: Needles

Melting Point: Mp 58°

Boiling Point: Bp₁₄ 130°

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 659B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 460A, (*ir*)

Haeseler, P.R., *J.A.C.S.*, 1925, **47**, 1195, (*synth*)

Org. Synth., *Coll. Vol.*, *1*, 1932, 191, (*synth*)

Smith, M.E. *et al.*, *J.A.C.S.*, 1938, **60**, 408, (*synth*)

U.S. Pat., 1950, 2 497 548; *CA*, **44**, 4494, (*synth*)

Steinegger, E. *et al.*, *Pharm. Acta Helv.*, 1976, **51**, 172; 203, (*isol*)