



>>Entry Name: 3-Amino-1-phenyl-1-propanone

Synonym(s): 2-Aminoethyl phenyl ketone. β -Aminopropiophenone. 2-Benzoylethylamine. 1-Amino-2-benzoylethane

CAS Registry Number: 2677-69-2

PhCOCH₂CH₂NH₂

Molecular Formula: C₉H₁₁NO

Molecular Weight: 149.192

Accurate Mass: 149.084064

Percentage Composition: C 72.46%; H 7.43%; N 9.39%; O 10.72%

>>Derivative: Hydrochloride

CAS Registry Number: 7495-58-1

Physical Description: Prisms (EtOH)

Melting Point: Mp 128 dec.°

>>Derivative: N-Ac

Molecular Formula: C₁₁H₁₃NO₂

Molecular Weight: 191.229

Accurate Mass: 191.094629

Percentage Composition: C 69.09%; H 6.85%; N 7.32%; O 16.73%

Physical Description: Plates (C₆H₆/petrol)

Melting Point: Mp 76°

>>Derivative: N-Me

Molecular Formula: C₁₀H₁₃NO

Molecular Weight: 163.219

Accurate Mass: 163.099714

Percentage Composition: C 73.59%; H 8.03%; N 8.58%; O 9.80%

Physical Description: Plates (Me₂CO) (as hydrochloride)

Melting Point: Mp 139-141° (hydrochloride)

>>Derivative: N,N-Di-Me

CAS Registry Number: 3506-36-3

Extra CAS Registry Numbers(s): 879-72-1

Molecular Formula: C₁₁H₁₅NO

Molecular Weight: 177.246

Accurate Mass: 177.115364

Percentage Composition: C 74.54%; H 8.53%; N 7.90%; O 9.03%

Melting Point: Mp 153-154° (hydrochloride)

References:

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Becker, H.G.O. *et al.*, *J. Prakt. Chem.*, 1964, **26**, 58; *CA*, **62**, 2731b, (*synth*)

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