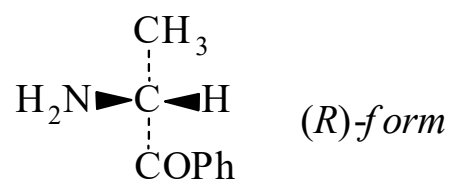




>>Entry Name: 2-Amino-1-phenyl-1-propanone, 9CI

Synonym(s): α -Aminopropiophenone. α -Benzoylethylamine. Cathinone, INN. Norephedrone



CAS Registry Number: 5265-18-9

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}$

Molecular Weight: 149.192

Accurate Mass: 149.084064

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

Biological Use/Importance: Analgesic, anorectic, antinociceptive agent. Possesses psychostimulant props.

Calculated Log P Data: Log P 0.84 (calc)

>>Variant: (*R*)-form

CAS Registry Number: 80096-54-4

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}$

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: 76333-53-4

Physical Description: Cryst. (2-propanol/THF)

Melting Point: Mp 189-190 dec.° (175-177°)

Optical Rotation: $[\alpha]_{\text{D}}^{23} +47.3$ (c, 1 in H_2O)

>>Variant: (*S*)-form

CAS Registry Number: 71031-15-7

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}$

Molecular Weight: 149.192

Accurate Mass: 149.084064

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

Biological Source: Isol. from leaves of *Catha edulis* (Khat) (Celastraceae) which are chewed for narcotic effect

Optical Rotation: $[\alpha]_{\text{D}}^{26} -26.5$ (c, 0.24 in CH_2Cl_2)

Other Data: Pharmacol. active enantiomer. Unstable except in dilute non-polar non-hydroxylic soln. Cathinone is the true alkaloid but is transformed in unfresh leaves to Ephedrine and Pseudoephedrine

Sigma: C6323

>>Derivative: Hydrochloride

CAS Registry Number: 72739-14-1

Physical Description: Cryst. (2-propanol/ Et_2O)

Melting Point: Mp 188-190° (176-178°)

Optical Rotation: $[\alpha]_{\text{D}}^{21} -46.9$ (c, 1 in H_2O)

>>Derivative: Oxalate salt

CAS Registry Number: 81626-17-7

Physical Description: Fine cryst. (EtOH)

Melting Point: Mp 173-175°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -40.5$ (c, 0.3 in MeOH)