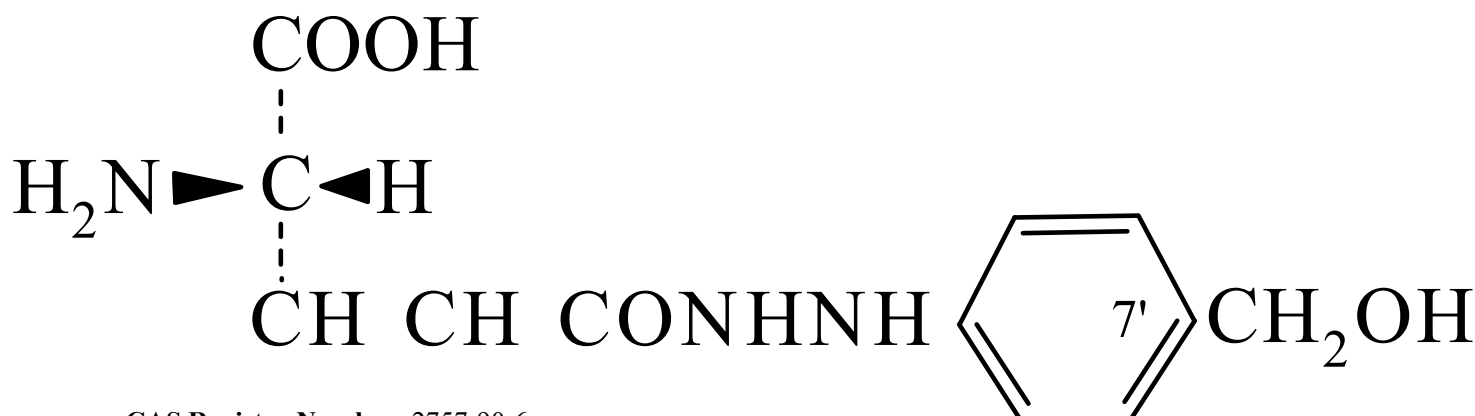




>>Entry Name: Agaritine

Synonym(s): β -N-(γ -Glutamyl)-4-hydroxymethylphenylhydrazine. Glutamic acid 5-2-(α -hydroxy-*p*-tolyl)hydrazide, 8Cl



CAS Registry Number: 2757-90-6

Molecular Formula: $C_{12}H_{17}N_3O_4$

Molecular Weight: 267.284

Accurate Mass: 267.121907

Percentage Composition: C 53.92%; H 6.41%; N 15.72%; O 23.94%

>>Variant: (*S*)-form

Synonym(s): L-form

Molecular Formula: $C_{12}H_{17}N_3O_4$

Molecular Weight: 267.284

Accurate Mass: 267.121907

Percentage Composition: C 53.92%; H 6.41%; N 15.72%; O 23.94%

Biological Source: Constit. of some members of the family Agaricaceae, notably *Agaricus bisporus*

Biological Use/Importance: Prevention of melanin formation. Tyrosinase inhibitor

Physical Description: Cryst. (EtOH/butanol)

Melting Point: Mp 205-209 dec.°

Optical Rotation: $[\alpha]_D^{25} +7$ (c, 0.8 in H_2O)

Solubility: BERDY SOL: Sol. MeOH, H_2O ; poorly sol. EtOAc, hexane

pKa Value: pK_{a1} 3.4; pK_{a2} 8.86 (H_2O)

UV: [neutral] λ_{max} 237 (ϵ 12000); 280 (ϵ 1400) (H_2O) (Berdy)

Hazard & Toxicity: A procarcinogen