



Synonym(s): 2-Aminopentanediamide, 9Cl. Glutamamide, 8Cl. Glutamide. Glutaminamide

CAS Registry Number: 2013-17-4

Molecular Formula: $C_5H_{11}N_3O_2$

Molecular Weight: 145.161

Accurate Mass: 145.085127

Percentage Composition: C 41.37%; H 7.64%; N 28.95%; O 22.04%

Melting Point: Mp 193-196° (as hydrochloride)

Optical Rotation: $[\alpha]_D^{23} +20.1$ (H₂O)

>>Derivative: Imide

>>Derivative: 5-(4-Hydroxyphenylhydrazide)

Synonym(s): Xanthodermin

CAS Registry Number: 99280-76-9

Molecular Formula: $C_{11}H_{15}N_3O_4$

Molecular Weight: 253.257

Accurate Mass: 253.106257

Percentage Composition: C 52.17%; H 5.97%; N 16.59%; O 25.27%

Biological Source: Isol. from the toxic yellow stainer mushroom (*Agaricus xanthodermus*)

Melting Point: Mp 164-166 dec.°

Optical Rotation: $[\alpha]_D +5.5$ (HCl aq.)

Solubility: Sol. MeOH

UV: [neutral] λ_{max} 228 (ϵ 2180); 292 (ϵ 8300) (MeOH) (Berdy) [base] λ_{max} 242 (); 348 (); 445 () (MeOH-NAOH) (Berdy)

Other Data: Related to Agaritine [HKJ38-Y](#) and Anthglutin [CLJ97-T](#)

>>Derivative: N-Ac

CAS Registry Number: 1188-37-0

Molecular Formula: $C_7H_{11}NO_5$

Molecular Weight: 189.168

Percentage Composition: C 44.45%; H 5.86%; N 7.40%; O 42.29%

Biological Source: Intermed. in 2,5-Diaminopentanoic acid [BCW90-D](#) biosynth.

Melting Point: Mp 199°

Optical Rotation: $[\alpha]_D -22.7$ (H₂O)

Aldrich: 85564-2

Fluka: 1160

Sigma: A9000

>>Derivative: N-Dodecanoyl

Synonym(s): N-(1-Oxododecyl)glutamic acid. N-Lauroylglutamic acid, 8Cl. N-Dodecanoylglutamic acid

CAS Registry Number: 3397-65-7

Extra CAS Registry Numbers(s): 29923-31-7 42926-22-7

Molecular Formula: $C_{17}H_{31}NO_5$

Molecular Weight: 329.436

Accurate Mass: 329.220224

Percentage Composition: C 61.98%; H 9.48%; N 4.25%; O 24.28%

Use/Importance: Surfactant used in detergents and shampoos, as mono-Na salt

Physical Description: V. deliquescent cryst. (EtOH aq.) (Na salt)

Melting Point: Mp 95-96° (Na salt)