



>>Entry Name: 6-Chlorotryptophan, 9Cl

Related CAS Registry Numbers(s): 33468-35-8

Structure by analogy with 2-Chlorotryptophan, [CHS18-N](#)

Molecular Formula: C₁₁H₁₁ClN₂O₂

Molecular Weight: 238.673

Accurate Mass: 238.050905

Percentage Composition: C 55.36%; H 4.65%; Cl 14.85%; N 11.74%; O 13.41%

Use/Importance: Sweetening agent

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 56632-86-1

Molecular Formula: C₁₁H₁₁ClN₂O₂

Molecular Weight: 238.673

Accurate Mass: 238.050905

Percentage Composition: C 55.36%; H 4.65%; Cl 14.85%; N 11.74%; O 13.41%

Melting Point: Mp 264 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +28$ (c, 1 in MeOH)

>>Derivative: N^α-Formyl

CAS Registry Number: 57233-89-3

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 143-145°

Optical Rotation: $[\alpha]_{\text{D}}^{23} -47$ (c, 1 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 17808-21-8

Molecular Formula: C₁₁H₁₁ClN₂O₂

Molecular Weight: 238.673

Accurate Mass: 238.050905

Percentage Composition: C 55.36%; H 4.65%; Cl 14.85%; N 11.74%; O 13.41%

Physical Description: Off-white cryst. (AcOH)

Melting Point: Mp 278 dec.° (285-286°)

>>Derivative: N^α-Formyl

CAS Registry Number: 57233-85-9

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 180-181°

References:

Fukuda, D.S. *et al.*, *Appl. Microbiol.*, 1971, **21**, 841, (*manuf*)

Yamada, S. *et al.*, *J. Agric. Food Chem.*, 1975, **23**, 653, (*synth, resoln*)

Perry, C.W. *et al.*, *Synthesis*, 1977, 492, (*synth*)

Hengartner, U. *et al.*, *J.O.C.*, 1979, **44**, 3748, (*synth*)

Lee, M. *et al.*, *J. Het. Chem.*, 1994, **31**, 711, (*pmr, cmr*)