



Formula: C₁₁H₁₂N₂O₃

MW: 220.23

CAS: 4350-09-8

TNP NUMBER: TNP00459

MDL NUMBER: MFCD00063883

IUPAC: (2S)-2-amino-3-(5-hydroxyindol-3-yl)propanoic acid

Smiles: c1(c2c(ccc(c2)O)[nH]c1)C[C@@H](C(=O)O)N

Precursor of serotonin

THERAPEUTIC CATEGORY: Antidepressant, anti-migraine; in treatment of myoclonus

ACCEPTORS: 3

DONORS: 5

ROTATION BONDS: 5

N+O: 5

Chiral Centers: 1

LogP: 0.39

LogS: -2.62

LIPINSKI: 4

Synonyms:

5-hydroxy-L-tryptophan;pretonine;C5-HYDROXY-L-TRYPTOPHAN;H-5-HYDROXY-TRP-OH;H-T
RP(5-OH)-OH;L-2-AMINO-3-(5-HYDROXYINDOLYL)PROPIONIC
ACID;L-5-HYDROXYTRYPTOPHAN HYDRATE;L-5-HYDROXYTRYPTOPHAN

CAS:4350-09-8

MF:C11H12N2O3

MW:220.22

EINECS:224-411-1

Product Categories:Pharmaceutical Raw Materials;Indoles and derivatives;Tryptophan [Trp,
W];Amino Acids;Biochemistry;Biological-modified Amino Acids;Indoles;Tryptophans;Natural
Plant Extract;Amino acids;Peptide Synthesis;Biochemicals Found in Plants;Nutrition
Research;Tryptophan Derivatives;Unnatural Amino Acid Derivatives L-5-Hydroxytryptophan

Chemical Properties: mp 270 C (dec.)(lit.) alpha -32.5 (c=1,H2O on dry basis) density 0.902
g/mL at 25 C(lit.) refractive index n20/D 1.4850(lit.) Fp 175 F storage temp. 2-8C solubility H2O:
10 mg/mL form solid color white Water Solubility Slightly soluble Merck 14,4847 BRN 88200

CAS DataBase Reference: 4350-09-8(

CAS DataBase Reference:) EPA Substance Registry System L-Tryptophan,
5-hydroxy-(4350-09-8) Xn, Xi Risk Statements 22-36/37/38-65-20/21/22-20/21 Safety
Statements 36-26 RIDADR UN 2811 6.1/PG 3 WGK Germany 3 RTECS YN7110000 F 3-10
Hazard Class 6.1 Packing Group III HS Code 29339990 L-5-Hydroxytryptophan
L-5-Hydroxytryptophan

Usage And Synthesis:

Chemical Properties: white to pale grey powder General Description Colorless to pale pink
crystals. Air & Water Reactions L-5-Hydroxytryptophan is sensitive to air. Slightly water soluble .
Reactivity Profile L-5-Hydroxytryptophan reacts with bases. . Fire Hazard Flash point data for
L-5-Hydroxytryptophan are not available, however, L-5-Hydroxytryptophan is probably
combustible. L-5-Hydroxytryptophan



