



Formula: C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>6</sub>

MW: 376.37

CAS: 83-88-5

TNP NUMBER: TNP00212

MDL NUMBER: MFCD00066861

IUPAC: 7,8-dimethyl-10-(2,3,4,5-tetrahydroxypentyl)-3,10-dihydrobenzo[g]pteridine-2,4 -dione

Smiles: c12c(nc3c(n1CC(C(C(O)CO)O)O)cc(c(C)c3)C)c(=O)[nH]c(n2)=O

THERAPEUTIC CATEGORY: Vitamin (Enzyme cofactor)

VET THERAP CATEGORY: Vitamin (Enzyme cofactor)

REFERENCE: Merck 13, 8284

SOURCE: Nutritional factor found in milk, eggs, malted barley, liver, kidney, leafy vegetables

ACCEPTORS: 6

DONORS: 5

ROTATION BONDS: 9

N+O: 10

Chiral Centers: 3

LogP: -2.36

LogS: -2.62

LIPINSKI: 4

Synonyms: (-)-RIBOFLAVIN, TRIHYDRATE;RIBOFLAVINUM;RIBOFLAVINE;(-)-RIBOFLAVIN;RIBOFLAVIN;RIBIPCA;VIT B2;VITAMIN G

CAS:83-88-5

MF:C17H20N4O6

MW:376.36

EINECS:201-507-1

Product Categories:PHARMACEUTICALS;Miscellaneous Natural Products;Biochemistry;Vitamins;Nutritional Supplements;Vitamins and derivatives;Vitamin Ingredients;Miscellaneous Compounds Riboflavin

Chemical Properties: mp 290 C (dec.)(lit.) alpha -135 (c=5, 0.05 M NaOH) refractive index -135 (C=0.5, JP Method) storage temp. 2-8C Water Solubility 0.07 g/L (20 C) Merck 14,8200 Stability:Stable, but light-sensitive. Incompatible with strong oxidizing agents, reducing agents, bases, calcium, metallic salts. May be moisture sensitive.

CAS DataBase Reference: 83-88-5(

CAS DataBase Reference: ) NIST Chemistry ReferenceRiboflavine(83-88-5) EPA Substance Registry SystemRiboflavin(83-88-5)

Safety Information: Safety Statements 24/25 WGK Germany 1 RTECS VJ1400000 F 8-10-21 HS Code 29362300 Hazardous Substances Data83-88-5(Hazardous Substances Data) Riboflavin Riboflavin

Usage And Synthesis:

Chemical Properties: Yellow to orange/yellow crystalline powd Riboflavin

