

Catalog Number: 101208

Uridine-5'-diphosphoglucose, disodium salt

Structure:



Molecular Formula: C₁₅H₂₂N₂O₁₇P₂Na₂

Molecular Weight: 610.3

CAS #: 117756-22-6

Synonym: UDPG; UDP Glucose disodium salt

Spectral Constants:

λ_{max}: 262 nm

ε_{max}: 9.82 × 10³

250/260: 0.76

280/260: 0.35

pH: ~7.0

Physical Description: White crystalline powder

Solubility: Freely soluble in water; sparingly soluble in methanol; practically insoluble in alcohol, ether, pyridine.

Description: This is a biosynthetic product produced by the reaction of UTP and glucose-1-phosphate catalyzed by uridyl transferase.

Reference:

1. Bertland, A.U., "Yeast Uridine diphosphate galactose 4-epimerase coenzyme complexes. Fluorescence and energy transfer." *Biochemistry*, v. **9**, 4649 (1970).