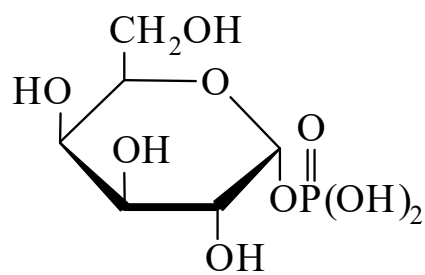




>>Entry Name: Galactose 1-dihydrogen phosphate, 8Cl

ENTRY UNDER REVIEW

Synonym(s): Galactose-1-phosphate



α -Pyranose-form

Molecular Formula: C₆H₁₃O₉P

Molecular Weight: 260.137

Accurate Mass: 260.029722

Percentage Composition: C 27.70%; H 5.04%; O 55.35%; P 11.91%

pKa Value: pK_{a1} 1; pK_{a2} 6.17

>>Variant: α -D-Pyranose-form

CAS Registry Number: 2255-14-3

Molecular Formula: C₆H₁₃O₉P

Molecular Weight: 260.137

Accurate Mass: 260.029722

Percentage Composition: C 27.70%; H 5.04%; O 55.35%; P 11.91%

Biological Source: Occurs in liver, milk, and yeasts

Optical Rotation: [α]_D²⁵+143 (H₂O)

Other Data: Yeast or bacterial preparations reversibly convert α -Galactose 1-phosphate into Glucose 6-phosphate *via* α -Glucose 1-phosphate

>>Derivative: Ba salt

Optical Rotation: [α]_D+92 (H₂O)

>>Derivative: Di-K salt

CAS Registry Number: 19046-60-7

Optical Rotation: [α]_D²²+100 (c, 1.57 in H₂O)

Fluka: 48272

Sigma: G5774

>>Derivative: Dicyclohexylammonium salt

Melting Point: Mp 147-153°

Optical Rotation: [α]_D²⁶+78.5 (H₂O)

>>Variant: β -D-Pyranose-form

CAS Registry Number: 2520-52-7

Molecular Formula: C₆H₁₃O₉P

Molecular Weight: 260.137

Accurate Mass: 260.029722

Percentage Composition: C 27.70%; H 5.04%; O 55.35%; P 11.91%

>>Derivative: Ba salt

Optical Rotation: [α]_D+31.2 (H₂O)

>>Derivative: Dicyclohexylammonium salt

Melting Point: Mp 145-151°

Optical Rotation: [α]_D²⁶+21 (H₂O)

References: