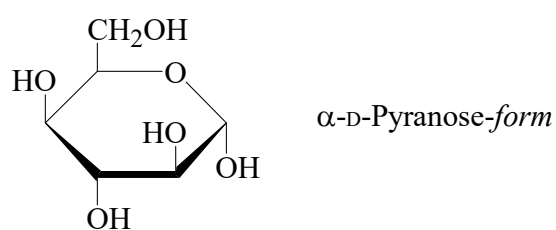




>>Entry Name: Idose, 9CI



$\alpha$ -D-Pyranose-*form*

**Related CAS Registry Numbers(s):** 5934-56-5 41847-65-8 41847-67-0

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.157

**Accurate Mass:** 180.06339

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

Idoseptanose [CXO21-X](#)

>>Variant: D-form

**CAS Registry Number:** 5978-95-0

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.157

**Accurate Mass:** 180.06339

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

**Physical Description:** Syrup

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>13</sup>+15.8 (c, 2.3 in H<sub>2</sub>O)

**Sigma:** I6629

>>Derivative: Pentabenzyl

**Synonym(s):** 1,2,3,4,5-Penta-*O*-benzyl-D-idose

**CAS Registry Number:** 158420-42-9

**Molecular Formula:** C<sub>41</sub>H<sub>42</sub>O<sub>6</sub>

**Molecular Weight:** 630.779

**Accurate Mass:** 630.29814

**Percentage Composition:** C 78.07%; H 6.71%; O 15.22%

**Physical Description:** Oil

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup>-4.3 (c, 0.58 in CHCl<sub>3</sub>)

>>Derivative: Phenyllosazone

>>Variant:  $\alpha$ -D-Pyranose-form

**CAS Registry Number:** 7282-82-8

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.157

**Accurate Mass:** 180.06339

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

>>Derivative: 1,2,3,6-Tetra-Ac

**Synonym(s):** 1,2,3,6-Tetra-*O*-acetyl- $\alpha$ -D-idopyranose

**CAS Registry Number:** 18977-21-4

**Molecular Formula:** C<sub>14</sub>H<sub>20</sub>O<sub>10</sub>

**Molecular Weight:** 348.306

**Accurate Mass:** 348.10565

**Percentage Composition:** C 48.28%; H 5.79%; O 45.93%

**Melting Point:** Mp 103-104°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup>+63 (c, 1.0 in CHCl<sub>3</sub>)