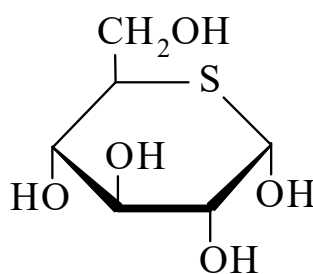




>>Entry Name: 5-Thioglucose, 9Cl, 8Cl



*α*-Pyranose-form

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>S

**Molecular Weight:** 196.224

**Accurate Mass:** 196.040545

**Percentage Composition:** C 36.73%; H 6.16%; O 40.77%; S 16.34%

>>Variant: D-Pyranose-form

**CAS Registry Number:** 16505-91-2

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>S

**Molecular Weight:** 196.224

**Accurate Mass:** 196.040545

**Percentage Composition:** C 36.73%; H 6.16%; O 40.77%; S 16.34%

**Use/Importance:** Interferes with spermatogenesis; exhibits diabetogenic activity in rats; effective against malignant cultured cells

**Physical Description:** Needles (CHCl<sub>3</sub>/MeOH)

**Melting Point:** Mp 135-136°

**Optical Rotation:** [α]<sub>D</sub><sup>20</sup>+188 (c, 1.56 in H<sub>2</sub>O)

>>Variant: α-D-Pyranose-form

**CAS Registry Number:** 20408-97-3

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>S

**Molecular Weight:** 196.224

**Accurate Mass:** 196.040545

**Percentage Composition:** C 36.73%; H 6.16%; O 40.77%; S 16.34%

**Aldrich:** 85986-9

**Fluka:** 88635

**Sigma:** T2635

>>Derivative: Penta-Ac

**Synonym(s):** 1,2,3,4,6-Penta-*O*-acetyl-5-thio-α-D-glucopyranose

**CAS Registry Number:** 10227-18-6

**Molecular Formula:** C<sub>16</sub>H<sub>22</sub>O<sub>10</sub>S

**Molecular Weight:** 406.41

**Accurate Mass:** 406.09337

**Percentage Composition:** C 47.29%; H 5.46%; O 39.37%; S 7.89%

**Melting Point:** Mp 103°

**Optical Rotation:** [α]<sub>D</sub><sup>23</sup>+213 (c, 1.56 in CHCl<sub>3</sub>)

>>Derivative: Me glycoside

**Synonym(s):** Methyl 5-thio-α-D-glucopyranoside

**CAS Registry Number:** 28585-88-8

**Molecular Formula:** C<sub>7</sub>H<sub>14</sub>O<sub>5</sub>S

**Molecular Weight:** 210.251

**Accurate Mass:** 210.056195

**Percentage Composition:** C 39.99%; H 6.71%; O 38.05%; S 15.25%

**Physical Description:** Cryst. (MeOH)

**Melting Point:** Mp 126°

**Optical Rotation:** [α]<sub>D</sub><sup>25</sup>+326.3 (c, 1.61 in MeOH)