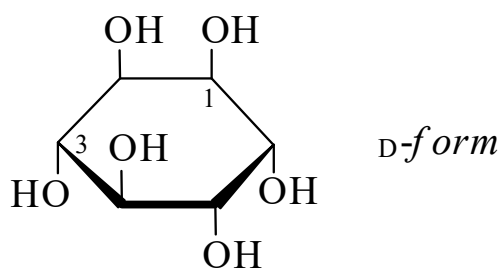




>>Entry Name: *chiro*-Inositol, 9CI, 8CI

ENTRY UNDER REVIEW

Synonym(s): (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\beta$ ,6 $\beta$ )-Cyclohexanehexol. 1,2,4/3,5,6-Inositol. Chiroinositol



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%

>>Variant: D-form

Synonym(s): *d*-Inositol. Matezodambose

CAS Registry Number: 643-12-9

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%

Biological Source: Component of Kasugamycin [HGS22-G](#)

Melting Point: Mp 248°

Optical Rotation: [ $\alpha$ ]<sub>D</sub> +65 (H<sub>2</sub>O)

Aldrich: 46804-5

Sigma: I1517

>>Derivative: 2-*O*- $\alpha$ -D-Galactopyranoside

Synonym(s): 2-*O*- $\alpha$ -D-Galactopyranosyl-D-*chiro*-inositol. **Fagopyritol B<sub>1</sub>**

CAS Registry Number: 79391-04-1

Molecular Formula: C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

Molecular Weight: 342.299

Accurate Mass: 342.116215

Percentage Composition: C 42.11%; H 6.48%; O 51.42%

Biological Source: Isol. from soya beans (*Glycine max*) and jojoba beans (*Simmondsia chinensis*) and also from *Fagopyrum esculentum*

Physical Description: Powder

Melting Point: Mp 165-170 dec.°

Optical Rotation: [ $\alpha$ ]<sub>D</sub> +170. [ $\alpha$ ]<sub>D</sub><sup>24</sup> +130 (c, 0.5 in H<sub>2</sub>O)

>>Derivative: 2-*O*-[ $\alpha$ -D-Galactopyranosyl-(1 $\rightarrow$ 6)- $\alpha$ -D-galactopyranoside]

Synonym(s): **Fagopyritol B<sub>2</sub>**

CAS Registry Number: 116261-02-0

Molecular Formula: C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>

Molecular Weight: 504.441

Accurate Mass: 504.16904

Percentage Composition: C 42.86%; H 6.39%; O 50.75%

Biological Source: Constit. of *Beta vulgaris*, *Fagopyrum esculentum* and *Lupinus albus*

Optical Rotation: [ $\alpha$ ]<sub>D</sub><sup>20</sup> +177.2

>>Derivative: 2-*O*-[ $\alpha$ -D-Galactopyranosyl-(1 $\rightarrow$ 6)- $\alpha$ -D-galactopyranosyl-(1 $\rightarrow$ 6)- $\alpha$ -D-galactopyranoside]

Synonym(s): **Fagopyritol B<sub>3</sub>**

CAS Registry Number: 208708-11-6