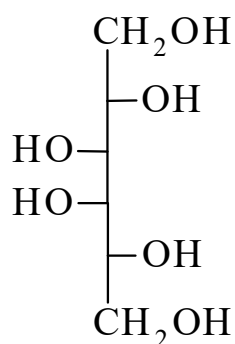




>>Entry Name: Galactitol

Synonym(s): *galacto*-Hexitol. Dulcose. Dulcite. Melampyrin. Dulcitol. Euonymit. Melampyrum



CAS Registry Number: 608-66-2

Related CAS Registry Numbers(s): 45007-61-2

Molecular Formula: C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>

Molecular Weight: 182.173

Accurate Mass: 182.07904

Percentage Composition: C 39.56%; H 7.75%; O 52.70%

Biological Source: Occurs in various mannans such as *Melampyrum nemorosum*, *Gymnosporia diflexa*. Also present in *Evonymus atropurpureus*, in seaweeds and in the pentose fermenting yeast *Torula utilis*

Melting Point: Mp 188.5°

Boiling Point: Bp<sub>1</sub> 275-280°

Calculated Log P Data: Log P -4.67 (calc)

Other Data: Opt. inactive, a *meso*-compd.

Aldrich: D22315-8

Fluka: 44590

Sigma: D0256

Supelco: 4-6920

>>Derivative: 1,6-Di-Ac

Synonym(s): 1,6-Di-*O*-acetylgalactitol

CAS Registry Number: 20847-03-4

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O<sub>8</sub>

Molecular Weight: 266.247

Accurate Mass: 266.10017

Percentage Composition: C 45.11%; H 6.81%; O 48.07%

Melting Point: Mp 168°

>>Derivative: Hexa-Ac

Synonym(s): Hexa-*O*-acetylgalactitol

Molecular Formula: C<sub>18</sub>H<sub>26</sub>O<sub>12</sub>

Molecular Weight: 434.396

Accurate Mass: 434.14243

Percentage Composition: C 49.77%; H 6.03%; O 44.20%

Melting Point: Mp 168-171°

>>Derivative: 1,6-Dibenzoyl

Synonym(s): 1,6-Di-*O*-benzoylgalactitol

CAS Registry Number: 58917-44-5

Molecular Formula: C<sub>20</sub>H<sub>22</sub>O<sub>8</sub>

Molecular Weight: 390.389

Accurate Mass: 390.13147

Percentage Composition: C 61.53%; H 5.68%; O 32.79%

Melting Point: Mp 206°