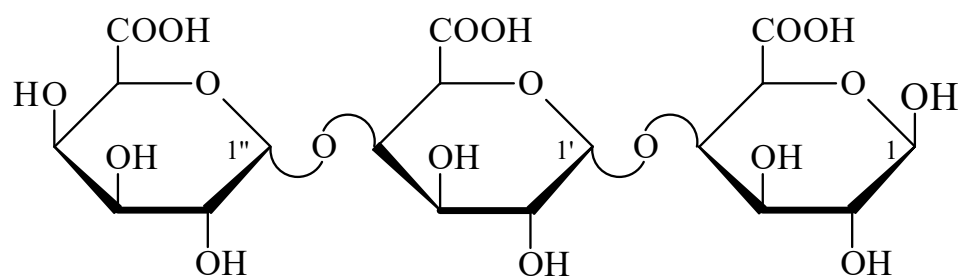




>>Entry Name:  $\alpha$ -D-Galactopyranuronosyl-(1 $\rightarrow$ 4)- $\alpha$ -D-galactopyranuronosyl-(1 $\rightarrow$ 4)-D-galacturonic acid, 9Cl, 8Cl  
ENTRY UNDER REVIEW



*b*-Pyranose-form

CAS Registry Number: 6037-45-2

Molecular Formula: C<sub>18</sub>H<sub>26</sub>O<sub>19</sub>

Molecular Weight: 546.392

Accurate Mass: 546.106835

Percentage Composition: C 39.57%; H 4.80%; O 55.64%

Biological Source: Isol. from enzymic hydrolysates (yeast or mould pectinases) of pectic acid. Also from partial acid hydrol. of *Medicago sativa* (lucerne) pectin

Use/Importance: Possible plant wound hormone

Melting Point: Mp 139-145 dec.°

Optical Rotation:  $[\alpha]_D^{27} +185$  (c, 0.12 in H<sub>2</sub>O)

Sigma: T0279

>>Variant: Pyranose-form

Molecular Formula: C<sub>18</sub>H<sub>26</sub>O<sub>19</sub>

Molecular Weight: 546.392

Accurate Mass: 546.106835

Percentage Composition: C 39.57%; H 4.80%; O 55.64%

>>Derivative: Ca salt

Physical Description: Cryst. + 1 or 7H<sub>2</sub>O

Melting Point: Mp 145-155° (monohydrate)

Optical Rotation:  $[\alpha]_D +154$  (H<sub>2</sub>O) (heptahydrate)

Other Data: Turns deep pink on melting

>>Variant:  $\beta$ -Pyranose-form

Molecular Formula: C<sub>18</sub>H<sub>26</sub>O<sub>19</sub>

Molecular Weight: 546.392

Accurate Mass: 546.106835

Percentage Composition: C 39.57%; H 4.80%; O 55.64%

>>Derivative: *tert*-Butyldiphenylsilyl glycoside, 2,2',2'',3,3',3'',4''-heptabenzyl

CAS Registry Number: 129729-25-5

Molecular Formula: C<sub>83</sub>H<sub>86</sub>O<sub>19</sub>Si

Molecular Weight: 1415.667

Percentage Composition: C 70.42%; H 6.12%; O 21.47%; Si 1.98%

Physical Description: Syrup + H<sub>2</sub>O

Optical Rotation:  $[\alpha]_D^{20} +93$  (c, 0.3 in H<sub>2</sub>O)

>>Derivative: *tert*-Butyldiphenylsilyl glycoside, 2,2',2'',3,3',3'',4''-heptabenzyl, tri-Me ester

CAS Registry Number: 129729-26-6

Molecular Formula: C<sub>86</sub>H<sub>92</sub>O<sub>19</sub>Si

Molecular Weight: 1457.747

Percentage Composition: C 70.86%; H 6.36%; O 20.85%; Si 1.93%

Physical Description: Syrup + H<sub>2</sub>O

Optical Rotation:  $[\alpha]_D^{25} +66$  (c, 0.8 in CHCl<sub>3</sub>)

References: