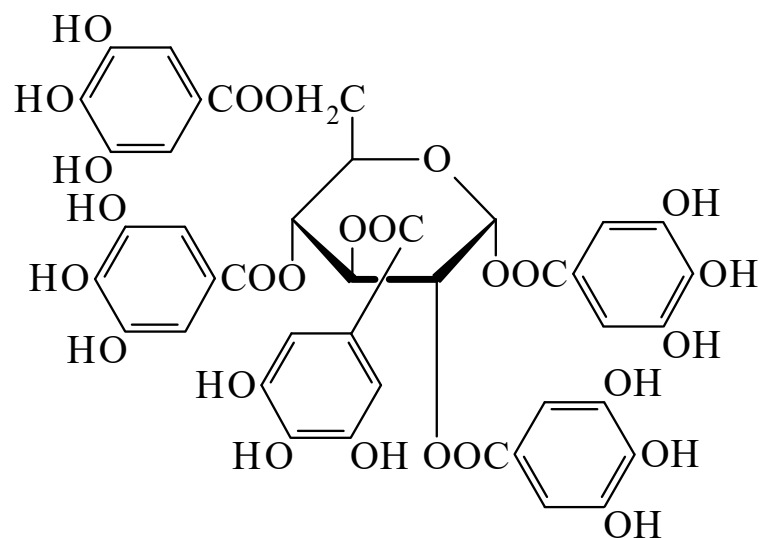




>>Entry Name: 1,2,3,4,6-Pentagalloylglucose



α -D-Pyranose-form

Related CAS Registry Numbers(s): 52238-31-0 86747-19-5 99877-82-4 99877-84-6 99877-86-8 99877-87-9

Molecular Formula: C₄₁H₃₂O₂₆

Molecular Weight: 940.688

Accurate Mass: 940.11819

Percentage Composition: C 52.35%; H 3.43%; O 44.22%

Use/Importance: Possesses antiviral props.

Calculated Log P Data: Log P 2.4 (calc)

>>Variant: α -D-Pyranose-form

CAS Registry Number: 70470-10-9

Molecular Formula: C₄₁H₃₂O₂₆

Molecular Weight: 940.688

Accurate Mass: 940.11819

Percentage Composition: C 52.35%; H 3.43%; O 44.22%

Biological Source: A gallotannin from the rhizome of *Nuphar japonicum*

Physical Description: Off-white amorph. powder + 5H₂O

Optical Rotation: [α]_D²⁹+134.5 (c, 0.5 in Me₂CO)

>>Variant: β -D-Pyranose-form

CAS Registry Number: 14937-32-7

Molecular Formula: C₄₁H₃₂O₂₆

Molecular Weight: 940.688

Accurate Mass: 940.11819

Percentage Composition: C 52.35%; H 3.43%; O 44.22%

Biological Source: Isol. from several *Acer* spp., *Quercus* spp. *Rhus* spp. and *Rubus* spp.

Physical Description: Off-white amorph. powder

Optical Rotation: [α]_D²⁰+20.5 (c, 1.0 in Me₂CO)

>>Derivative: *O*-(3,4,5-Trihydroxybenzoyl)(1)

Synonym(s): 2-*O*-Digalloyl-1,3,4,6-tetra-*O*-galloyl- β -D-glucopyranose

CAS Registry Number: 85249-26-9

Molecular Formula: C₄₈H₃₆O₃₀

Molecular Weight: 1092.794

Accurate Mass: 1092.12915

Percentage Composition: C 52.76%; H 3.32%; O 43.92%

Biological Source: Isol. from the twig galls of *Rhus semialata* and *Quercus infectoria*

Physical Description: Light brown amorph. powder

Optical Rotation: [α]_D²⁰+11.2 (c, 0.25 in Me₂CO)

Other Data: Contains a digalloyl (galloylgalloyl) residue at C-2