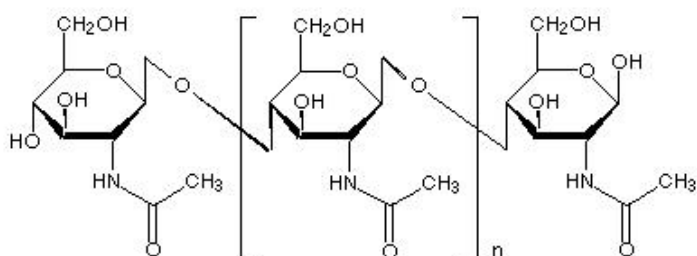


TECHNICAL INFORMATION

Catalog Number: 101334

Chitin

Structure:



Approximate Molecular Formula: C₃₀H₅₀N₄O₁₉

Approximate Molecular Weight: 770.8

CAS # : 1398-61-4

Synonym: poly (N-acetyl-D-glucosamine)

Form: Unbleached, practical grade

Source: *Crustacean shells*

Physical Description: Off white to light brown flakes or powder

Solubility: Soluble in concentrated HCl, H₃SO₄ or anhydrous Acetic Acid; practically insoluble in water, dil acids, dil and concentrated alkalies, alcohol and other organic solvents. There are substantial variations in solubility.

Description: Cellulose-like biopolymer consisting predominantly of unbranched chains of β-(1→4)-2-acetamido-2-deoxy-D-glucose (also named N-acetyl-D-glucosamine) residues. Found in fungi, yeasts, marine invertebrates and arthropods, where it is a principal component in the exoskeletons. May be regarded as a derivative of cellulose, in which the C-2 hydroxyl groups have been replaced by acetamido residues. ¹

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