



>>Entry Name: Poliglusam, INN, USAN

Synonym(s): Poly(1,4-β-D-glucopyranosamine), 9Cl. Chitosan

CAS Registry Number: 9012-76-4

Source/Synthesis: Obt. from Chitin [BVM67-G](#) by methods incl. alkaline hydrol. and thermochemical-chemical treatment

Use/Importance: Collector for precipitation separation of trace metals. Under evaluation for wound dressing, as a haemostatic agent, in drug delivery systems and as an antihypercholesterolaemic agent. Used in edible coatings for fruit and vegetables and in biodegradable packaging films. Used in cosmetics, water clarification and waste management

Physical Description: Leaflets

Solubility: Sol. dil. formic acid, AcOH; insol. H₂O, mineral acids

Other Data: Typically 80-90% deacylated, though may contain a proportion of insoluble crystallites (Hydrochitin) characterised by higher acetyl content

Aldrich: 41941-9

Fluka: 22743

Sigma: C0792

References:

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Wu, A.C.M., *Methods Enzymol.*, 1988, **161**, 447, (*hplc*)
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