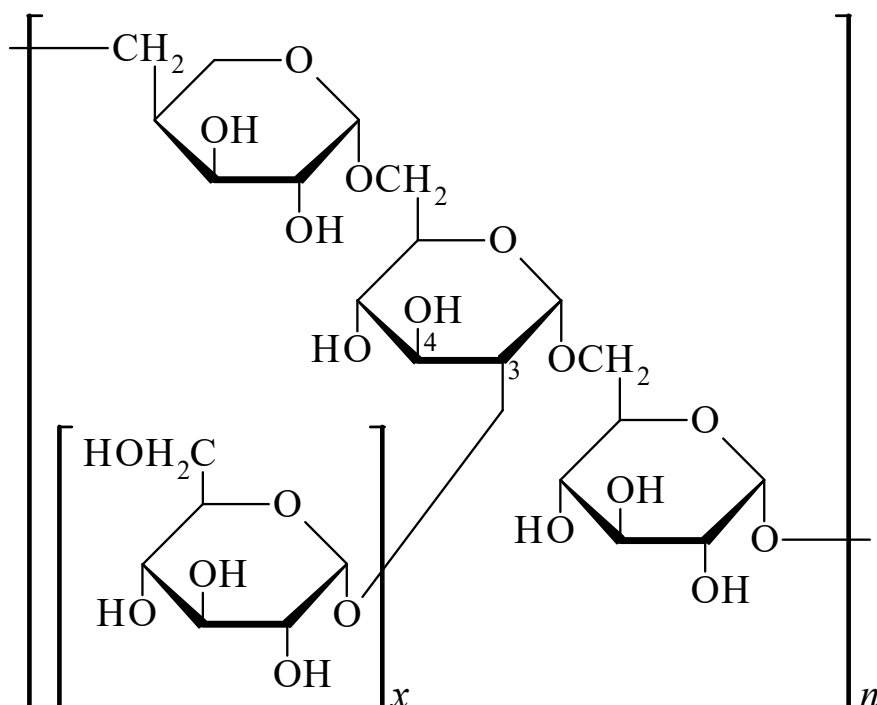




>>Entry Name: Dextran, 9CI, 8CI, BAN, INN

ENTRY UNDER REVIEW

Synonym(s): Hemodex. Hyskon. Infucoll. Intradex. Macrosee



CAS Registry Number: 9004-54-0

Related CAS Registry Numbers(s): 9011-18-1 39422-86-1

General Statement: Bacterial polysaccharides of α -(1-6)-D-Glcp units differing only in chain length and degree of branching which occurs through α (1 $\rightarrow$ 3) (illus.) and α (1 $\rightarrow$ 4) branch points. M40000 (average for Dextran 40)

Biological Source: Many bacteria synthesise Dextran from sucrose. *Leuconostoc mesenteroides* and *Leuconostoc dextranicum* are used commercially

Use/Importance: Plasma volume expander. Used also as mol. sieve in a modified form. Mixed ethers and esters are used in lacquers

Other Data: Chem. and phys. props. differ depending on mode of prodn. Native dextrans have a high Mw, clinical dextrans prod. by synth. or by depolymerisation of native dextrans have a low Mw

Hazard & Toxicity: Adverse human systemic effects when used therapeutically. Exp. reprod. and teratogenic effects (large doses) (Dextran 70). LD₅₀ (rat, scu) 10700 mg/kg

Fluka: 31398

Sigma: D7265

>>Derivative: Na salt, Al complex

Synonym(s): Detralfate, INN

CAS Registry Number: 37209-31-7

Use/Importance: Antiulcerogenic agent

Optical Rotation: $[\alpha]_D^{20} +83.2$ (c, 5 in 1M HCl)

Hazard & Toxicity: LD₅₀ (rat, ipr) 200 mg/kg. LD₅₀ (rat, scu) 1600 mg/kg

>>Derivative: Poly-O-sulfate

CAS Registry Number: 9042-14-2

Extra CAS Registry Numbers(s): 9011-18-1

Use/Importance: Anticoagulant and antihyperlipoproteinemic agent. Used in affinity chromatography of blood products

Physical Description: Powder

Other Data: Heparin-like polysaccharide containing up to three sulfate groups per glucose molecule with a molecular weight range of 4000-500,000 Da

>>Derivative: Poly-O-2-(diethylaminoethyl)

Synonym(s): Colextran, INN

CAS Registry Number: 9015-73-0

Use/Importance: Antihypercholesterolaemic agent