

C 08 B POLYSACCHARIDES; DERIVATIVES THEREOF (polysaccharides containing less than six saccharide radicals attached to each other by glycosidic linkages [C 07 H](#); fermentation or enzyme-using processes [C 12 P 19/00](#); sugar industry [C 13](#); production of cellulose [D 21](#)) [4]

Note

Therapeutic activity of compounds is further classified in subclass [A 61 P](#). [7]

Subclass Index

CELLULOSE AND DERIVATIVES THEREOF

Preparatory treatment of cellulose.....	1/00
Esters.....	3/00, 5/00, 7/00, 13/00, 17/00
Ethers	11/00, 13/00, 17/00
Xanthates.....	9/00
Other derivatives	15/00
Regeneration of cellulose	16/00

STARCH; DEGRADED OR NON-CHEMICALLY MODIFIED STARCH; AMYLOSE; AMYLOPECTION	30/00
CHEMICAL DERIVATIVES OF STARCH, OF AMYLOSE OR OF AMYLOPECTIN	
of starch	31/00
of amylose.....	33/00
of amylopectin	35/00
OTHER POLYSACCHARIDES.....	37/00

Preparation

1/00 Preparatory treatment of cellulose for making derivatives thereof

- 1/02 . Rendering cellulose suitable for esterification
- 1/04 . . for the preparation of cellulose nitrate
- 1/06 . Rendering cellulose suitable for etherification
- 1/08 . Alkali cellulose
- 1/10 . . Apparatus for the preparation of alkali cellulose
- 1/12 . . . Steeping devices
- 1/14 . . . Ripening devices

3/00 Preparation of cellulose esters of organic acids

- 3/02 . Catalysts used for the esterification
- 3/04 . Cellulose formate
- 3/06 . Cellulose acetate
- 3/08 . of monobasic organic acids with three or more carbon atoms
- 3/10 . . with five or more carbon atoms
- 3/12 . of polybasic organic acids
- 3/14 . in which the organic acid residue contains substituents, e.g. NH₂, Cl
- 3/16 . Preparation of mixed organic cellulose esters
- 3/18 . . Aceto-butyrate
- 3/20 . Esterification with maintenance of the fibrous structure of the cellulose (surface esterification of textiles [D 06 M 13/00](#))
- 3/22 . Post-esterification treatments, including purification
- 3/24 . . Hydrolysis or ripening
- 3/26 . . Isolation of the cellulose ester
- 3/28 . . . by precipitation
- 3/30 . . Stabilisation (by addition of stabilisers [C 08 K](#))

5/00 Preparation of cellulose esters of inorganic acids

- 5/02 . Cellulose nitrate
- 5/04 . . Post-esterification treatments, including purification
- 5/06 . . . Isolation of the cellulose nitrate
- 5/08 . . . Stabilisation (by addition of stabilisers [C 08 K](#))
- 5/10 . . . Reducing the viscosity

- 5/12 . . . Replacing the water by organic liquids
- 5/14 . Cellulose sulfate

7/00 Preparation of cellulose esters of both organic and inorganic acids

9/00 Cellulose xanthate; Viscose

- 9/02 . Sulfidisers; Dissolvers
- 9/04 . Continuous processes
- 9/06 . Single-stage processes

11/00 Preparation of cellulose ethers

- 11/02 . Alkyl or cycloalkyl ethers
- 11/04 . . with substituted hydrocarbon radicals
- 11/06 . . . with halogen-substituted hydrocarbon radicals
- 11/08 . . . with hydroxylated hydrocarbon radicals; Esters, ethers, or acetals thereof
- 11/10 . . . substituted with acid radicals
- 11/12 substituted with carboxylic radicals
- 11/14 . . . with nitrogen-containing groups
- 11/145 with basic nitrogen, e.g. aminoalkyl ethers [2]
- 11/15 with carbamoyl groups [2]
- 11/155 with cyano groups, e.g. cyanoalkyl ethers [2]
- 11/16 . Aryl or aralkyl ethers
- 11/18 . . with substituted hydrocarbon radicals
- 11/187 . with olefinic unsaturated groups [2]
- 11/193 . Mixed ethers, i.e. ethers with two or more different etherifying groups [2]
- 11/20 . Post-etherification treatments, including purification
- 11/22 . . Isolation

13/00 Preparation of cellulose ether-esters

- 13/02 . Cellulose ether xanthates

15/00 Preparation of other cellulose derivatives or modified cellulose

- 15/02 . Oxycellulose; Hydrocellulose; Cellulose hydrate
- 15/04 . . Carboxycellulose, e.g. prepared by oxidation with nitrogen dioxide

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- 15/05 . Derivatives containing elements other than carbon, hydrogen, oxygen, halogen, or sulfur (esters of phosphorus acids 5/00) [2]
 - 15/06 . . containing nitrogen [2]
 - 15/08 . Fractionation of cellulose, e.g. separation of cellulose crystallites [2]
 - 15/10 . Crosslinking of cellulose [2]
 - 16/00 Regeneration of cellulose [2]**
 - 17/00 Apparatus for esterification or etherification of cellulose**
 - 17/02 . for making organic esters of cellulose
 - 17/04 . for making cellulose nitrate
 - 17/06 . for making cellulose ethers
 - 30/00 Preparation of starch, degraded or non-chemically modified starch, amylose, or amylopectin [4]**
 - 30/02 . Preparatory treatment, e.g. crushing of raw materials (machines for preliminary washing A 23 N) [4]
 - 30/04 . Extraction or purification [4]
 - 30/06 . Drying; Forming [4]
 - 30/08 . Concentration of starch suspensions [4]
 - 30/10 . Working-up residues from the starch extraction, including pressing water from the starch-extracted material [4]
 - 30/12 . Degraded or non-chemically modified starch; Bleaching of starch (preparation of chemical derivatives of starch 31/00) [4]
 - 30/14 . . Cold water dispersible or pregelatinised starch [4]
 - 30/16 . . Apparatus therefor [4]
 - 30/18 . . Dextrin [4]
 - 30/20 . Amylose or amylopectin (chemical derivatives thereof 33/00, 35/00) [4]
 - 31/00 Preparation of chemical derivatives of starch** (chemical derivatives of amylose 33/00; chemical derivatives of amylopectin 35/00) [2]
 - 31/02 . Esters [2]
 - 31/04 . . of organic acids [2]
 - 31/06 . . of inorganic acids [2]
 - 31/08 . Ethers [2]
 - 31/10 . . Alkyl or cycloalkyl ethers [2]
 - 31/12 . . having alkyl or cycloalkyl radicals substituted by hetero atoms [2]
 - 31/14 . . Aryl or aralkyl ethers [2]
 - 31/16 . Ether-esters [2]
 - 31/18 . Oxidised starch [2]
 - 33/00 Preparation of chemical derivatives of amylose [2]**
 - 33/02 . Esters [2]
 - 33/04 . Ethers [2]
 - 33/06 . Ether-esters [2]
 - 33/08 . Oxidised amylose [2]
 - 35/00 Preparation of chemical derivatives of amylopectin [2]**
 - 35/02 . Esters [2]
 - 35/04 . Ethers [2]
 - 35/06 . Ether-esters [2]
 - 35/08 . Oxidised amylopectin [2]
 - 37/00 Preparation of polysaccharides not provided for in groups 1/00 to 35/00; Derivatives thereof** (cellulose D 21) [4]
 - 37/02 . Dextran; Derivatives thereof [2]
 - 37/04 . Alginic acid; Derivatives thereof (foodstuff preparations A 23 L 1/05) [2]
 - 37/06 . Pectin; Derivatives thereof [2]
 - 37/08 . Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof [2]
 - 37/10 . Heparin; Derivatives thereof [2]
 - 37/12 . Agar-agar; Derivatives thereof [2]
 - 37/14 . Hemicellulose; Derivatives thereof [2]
 - 37/16 . Cyclodextrin; Derivatives thereof [2]
 - 37/18 . Reserve carbohydrates, e.g. glycogen, inulin, laminarin; Derivatives thereof [4]
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