SECTION C — CHEMISTRY; METALLURGY

C08 ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON

C08B POLYSACCHARIDES; DERIVATIVES THEREOF (polysaccharides containing less than six saccharide radicals attached to each other by glycosidic linkages C07H; fermentation or enzyme-using processes C12P 19/00; production of cellulose D21) **[4]**

Note(s) [7]

Therapeutic activity of compounds is further classified in subclass A61P.

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; AMYLOPECTIN. 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, 2006.01]

1/02 • Rendering cellulose suitable for esterification **[1, 2006.01]**

1/04 • • for the preparation of cellulose nitrate **[1, 2006.01]**

1/06 • Rendering cellulose suitable for etherification **[1, 2006.01]**

1/08 • Alkali cellulose **[1, 2006.01]**

1/10 • • Apparatus for the preparation of alkali cellulose **[1, 2006.01]**

1/12 • • • Steeping devices **[1, 2006.01]**

1/14 • • • Ripening devices **[1, 2006.01]**

3/00 Preparation of cellulose esters of organic acids [1, 2006.01]

3/02 • Catalysts used for the esterification **[1, 2006.01]**

3/04 • Cellulose formate **[1, 2006.01]**

3/06 • Cellulose acetate **[1, 2006.01]**

3/08 • of monobasic organic acids with three or more carbon atoms **[1, 2006.01]**

3/10 • • with five or more carbon atoms **[1, 2006.01]**

3/12 • of polybasic organic acids **[1, 2006.01]**

3/14 • in which the organic acid residue contains substituents, e.g. NH_2, Cl **[1, 2006.01]**

3/16 • Preparation of mixed organic cellulose esters **[1, 2006.01]**

3/18 • • Aceto-butyrates **[1, 2006.01]**

3/20 • Esterification with maintenance of the fibrous structure of the cellulose **[1, 2006.01]**

3/22 • Post-esterification treatments, including purification **[1, 2006.01]**

3/24 • • Hydrolysis or ripening **[1, 2006.01]**

3/26 • • Isolation of the cellulose ester **[1, 2006.01]**

3/28 • • • by precipitation **[1, 2006.01]**

3/30 • • Stabilisation **[1, 2006.01]**

5/00 Preparation of cellulose esters of inorganic acids [1, 2006.01]

5/02 • Cellulose nitrate **[1, 2006.01]**

5/04 • • Post-esterification treatments, including purification **[1, 2006.01]**

5/06 • • • Isolation of the cellulose nitrate **[1, 2006.01]**

5/08 • • • Stabilisation **[1, 2006.01]**

5/10 • • • Reducing the viscosity **[1, 2006.01]**

5/12 • • • Replacing the water by organic liquids **[1, 2006.01]**

5/14 • Cellulose sulfate **[1, 2006.01]**

7/00 Preparation of cellulose esters of both organic and inorganic acids [1, 2006.01]

9/00 Preparation of cellulose xanthate or viscose [1, 2006.01]

9/02 • Sulfidisers; Dissolvers **[1, 2006.01]**

9/04 • Continuous processes **[1, 2006.01]**

9/06 • Single-stage processes **[1, 2006.01]**

11/00 Preparation of cellulose ethers [1, 2006.01]
11/02 • Alkyl or cycloalkyl ethers **[1, 2006.01]**
11/04 • • with substituted hydrocarbon radicals **[1, 2006.01]**
11/06 • • • with halogen-substituted hydrocarbon radicals **[1, 2006.01]**
11/08 • • • with hydroxylated hydrocarbon radicals; Esters, ethers, or acetals thereof **[1, 2006.01]**
11/10 • • • substituted with acid radicals **[1, 2006.01]**
11/12 • • • • substituted with carboxylic radicals **[1, 2006.01]**
11/14 • • • with nitrogen-containing groups **[1, 2006.01]**
11/145 • • • • with basic nitrogen, e.g. aminoalkyl ethers **[2, 2006.01]**
11/15 • • • • with carbamoyl groups **[2, 2006.01]**
11/155 • • • • with cyano groups, e.g. cyanoalkyl ethers **[2, 2006.01]**
11/16 • Aryl or aralkyl ethers **[1, 2006.01]**
11/18 • • with substituted hydrocarbon radicals **[1, 2006.01]**
11/187 • with olefinic unsaturated groups **[2, 2006.01]**
11/193 • Mixed ethers, i.e. ethers with two or more different etherifying groups **[2, 2006.01]**
11/20 • Post-etherification treatments, including purification **[1, 2006.01]**
11/22 • • Isolation **[1, 2006.01]**

13/00 Preparation of cellulose ether-esters [1, 2006.01]
13/02 • Cellulose ether xanthates **[1, 2006.01]**

15/00 Preparation of other cellulose derivatives or modified cellulose [1, 2006.01]
15/02 • Oxycellulose; Hydrocellulose; Cellulose hydrate **[1, 2006.01]**
15/04 • • Carboxycellulose, e.g. prepared by oxidation with nitrogen dioxide **[1, 2006.01]**
15/05 • Derivatives containing elements other than carbon, hydrogen, oxygen, halogen, or sulfur (esters of phosphorus acids C08B 5/00) **[2, 2006.01]**
15/06 • • containing nitrogen **[1, 2, 2006.01]**
15/08 • Fractionation of cellulose, e.g. separation of cellulose crystallites **[2, 2006.01]**
15/10 • Crosslinking of cellulose **[2, 2006.01]**

16/00 Regeneration of cellulose [2, 2006.01]

17/00 Apparatus for esterification or etherification of cellulose [1, 2006.01]
17/02 • for making organic esters of cellulose **[1, 2006.01]**
17/04 • for making cellulose nitrate **[1, 2006.01]**
17/06 • for making cellulose ethers **[1, 2006.01]**

30/00 Preparation of starch, degraded or non-chemically modified starch, amylose, or amylopectin [4, 2006.01]
30/02 • Preparatory treatment, e.g. crushing of raw materials **[4, 2006.01]**
30/04 • Extraction or purification **[4, 2006.01]**
30/06 • Drying; Forming **[4, 2006.01]**
30/08 • Concentration of starch suspensions **[4, 2006.01]**
30/10 • Working-up residues from the starch extraction, including pressing water from the starch-extracted material **[4, 2006.01]**
30/12 • Degraded or non-chemically modified starch; Bleaching of starch (preparation of chemical derivatives of starch C08B 31/00) **[4, 2006.01]**
30/14 • • Cold water dispersible or pregelatinised starch **[4, 2006.01]**
30/16 • • Apparatus therefor **[4, 2006.01]**
30/18 • • Dextrin **[4, 2006.01]**
30/20 • Amylose or amylopectin (chemical derivatives thereof C08B 33/00, C08B 35/00) **[4, 2006.01]**

31/00 Preparation of chemical derivatives of starch (chemical derivatives of amylose C08B 33/00; chemical derivatives of amylopectin C08B 35/00) **[2, 2006.01]**
31/02 • Esters **[2, 2006.01]**
31/04 • • of organic acids **[2, 2006.01]**
31/06 • • of inorganic acids **[2, 2006.01]**
31/08 • Ethers **[2, 2006.01]**
31/10 • • Alkyl or cycloalkyl ethers **[2, 2006.01]**
31/12 • • having alkyl or cycloalkyl radicals substituted by hetero atoms **[2, 2006.01]**
31/14 • • Aryl or aralkyl ethers **[2, 2006.01]**
31/16 • Ether-esters **[2, 2006.01]**
31/18 • Oxidised starch **[2, 2006.01]**

33/00 Preparation of chemical derivatives of amylose [2, 2006.01]
33/02 • Esters **[2, 2006.01]**
33/04 • Ethers **[2, 2006.01]**
33/06 • Ether-esters **[2, 2006.01]**
33/08 • Oxidised amylose **[2, 2006.01]**

35/00 Preparation of chemical derivatives of amylopectin [2, 2006.01]
35/02 • Esters **[2, 2006.01]**
35/04 • Ethers **[2, 2006.01]**
35/06 • Ether-esters **[2, 2006.01]**
35/08 • Oxidised amylopectin **[2, 2006.01]**

37/00 Preparation of polysaccharides not provided for in groups C08B 1/00-C08B 35/00; Derivatives thereof (cellulose D21) **[4, 2006.01]**
37/02 • Dextran; Derivatives thereof **[2, 2006.01]**
37/04 • Alginic acid; Derivatives thereof **[2, 2006.01]**
37/06 • Pectin; Derivatives thereof **[2, 2006.01]**
37/08 • Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof **[2, 2006.01]**
37/10 • Heparin; Derivatives thereof **[2, 2006.01]**
37/12 • Agar-agar; Derivatives thereof **[2, 2006.01]**
37/14 • Hemicellulose; Derivatives thereof **[2, 2006.01]**
37/16 • Cyclodextrin; Derivatives thereof **[2, 2006.01]**
37/18 • Reserve carbohydrates, e.g. glycogen, inulin, laminarin; Derivatives thereof **[4, 2006.01]**