## CPC

### COOPERATIVE PATENT CLASSIFICATION

### CHEMISTRY

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#### C08

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

#### C08G

**MACROMOLECULAR COMPOUNDS OBTAINED OTHERWISE THAN BY REACTIONS ONLY INVOLVING UNSATURATED CARBON-TO-CARBON BONDS**

### NOTES

1. Therapeutic activity of compounds is further classified in subclass A61P.
2. In this subclass, group C08G 18/00 takes precedence over the other groups. A further classification is given if the polymers are obtained by reactions forming specific linkages for which an appropriate group is provided.
3. Within each main group of this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
4. This subclass covers also compositions based on monomers which form macromolecular compounds classifiable in this subclass. In this subclass:
   a. if the monomers are defined, classification is made in groups C08G 2/00 - C08G 79/00, C08G 83/00 according to the polymer to be formed;
   b. if the monomers are defined in a way that a composition cannot be classified within one main group of this subclass, the composition is classified in group C08G 85/00;
   c. if the compounding ingredients are of interest per se, classification is also made in subclass C08K.
5. In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions.

### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - C08G 14/067, C08G 14/073, C08G 14/09 covered by C08G 14/06
   - C08G 59/16, C08G 59/17 covered by C08G 59/14
   - C08G 63/49 covered by C08G 63/48
   - C08G 65/28 covered by C08G 65/26
   - C08G 73/04 covered by C08G 73/02
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

### 2/00

**Addition polymers of aldehydes or cyclic oligomers thereof or of ketones; Addition copolymers thereof with less than 50 molar percent of other substances**

2/02

- Polymerisation initiated by wave energy or by particle radiation

2/04

- Polymerisation by using compounds which act upon the molecular weight, e.g. chain-transferring agents

2/06

- Catalysts (Catalysts in general B01J)

2/08

- Polymerisation of formaldehyde

2/10

- Polymerisation of cyclic oligomers of formaldehyde

2/12

- Polymerisation of acetaldehyde or cyclic oligomers thereof

2/14

- Polymerisation of single aldehydes not provided for in groups C08G 2/08 - C08G 2/12

2/16

- Polymerisation of single ketones

2/18

- Copolymerisation of aldehydes or ketones

2/20

- with other aldehydes or ketones

2/22

- with epoxy compounds

2/24

- with acetal compounds

2/26

- with compounds containing carbon-to-carbon unsaturation

2/28

- Post-polymerisation treatments

2/30

- Chemical modification by after-treatment

2/32

- by esterification

2/34

- by etherification

2/36

- by depolymerisation

2/38

- Block or graft polymers prepared by polymerisation of aldehydes or ketones on to macromolecular compounds

### 4/00

**Condensation polymers of aldehydes or ketones with polyalcohols; Addition polymers of heterocyclic oxygen compounds containing in the ring at least once the grouping —O—C—O— (of cyclic oligomers of aldehydes C08G 2/00)**

### 6/00

**Condensation polymers of aldehydes or ketones only**

6/02

- of aldehydes with ketones
Condensation polymers of aldehydes or ketones with phenols only

8/04 . of ketones
8/06 . of aldehydes
8/08 . of furfural
8/10 . with phenol
8/12 . with monohydric phenols having one hydroxyl substituents on para to the OH group, e.g. p-tert.-butyl phenol
8/14 . with halogenated phenols
8/16 . with amino- or nitrophenols
8/18 . with phenols substituted by carboxylic or sulfonic acid groups
8/20 . with polyhydric phenols
8/22 . Resorcinal
8/24 . with mixtures of two or more phenols which are not covered by only one of the groups C08G 8/10 - C08G 8/20
8/26 . from mixtures of aldehydes and ketones
8/28 . Chemically modified polycondensates
8/30 . by unsaturated compounds, e.g. terpenes
8/32 . by organic acids or derivatives thereof, e.g. fatty oils
8/34 . by natural resins or resin acids, e.g. rosin
8/36 . by etherifying
8/38 . Block or graft polymers prepared by condensation of aldehydes or ketones onto macromolecular compounds

Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or halogenated aromatic hydrocarbons only

10/02 . of aldehydes
10/04 . Chemically-modified polycondensates
10/06 . Block or graft polymers prepared by condensation of aldehydes or ketones onto macromolecular compounds

Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (aminophenols C08G 8/16)

12/02 . of aldehydes
12/04 . with acyclic or carboxylic compounds
12/043 . [with at least two compounds covered by more than one of the groups C08G 12/06 - C08G 12/24]
12/046 . [one being urea or thiourea]
12/06 . Amines
12/08 . aromatic
12/10 . with acyclic compounds having the moiety X=C(--N=)2 in which X is O, S or --N
12/12 . Ureas; Thioureas
12/14 . Dicyandiamides; Dicyandiamidines; Guanidines; Biguanidines; Biuret; Semicarbazides
12/16 . Dicyandiamides
12/18 . with cyanamide
12/20 . with urethanes or thioureas
12/22 . with carboxylic acid amides (reaction of polyamides with aldehydes C08G 69/50)
12/24 . with sulfonic acid amides
12/26 . with heterocyclic compounds

Condensation polymers of aldehydes or ketones with two or more other monomers covered by at least two of the groups C08G 8/00 - C08G 12/00

14/02 . of aldehydes
14/04 . with phenols
14/06 . and monomers containing hydrogen attached to nitrogen
14/08 . . Ureas; Thioureas
14/10 . . Melamines
14/12 . . Chemically modified polycondensates
14/14 . . Block or graft polymers prepared by condensation of aldehydes or ketones on to macromolecular compounds

Condensation polymers of aldehydes or ketones with monomers not provided for in the groups C08G 4/00 - C08G 14/00 (with polynitriles C08G 69/38)

16/02 . of aldehydes
16/0206 . [with inorganic compounds]
16/0212 . [with acyclic or carboxylic organic compounds]
16/0218 . [containing atoms other than carbon and hydrogen]
16/0225 . [containing oxygen]
16/0231 . [containing nitrogen]
16/0237 . [containing sulfur]
16/0243 . [containing phosphorus]
16/025 . [with heterocyclic organic compounds]
16/0256 . [containing oxygen in the ring]
16/0262 . [Furfuryl alcohol]
16/0268 . [containing nitrogen in the ring]
16/0275 . [containing sulfur in the ring]
16/0281 . [containing phosphorus in the ring]
16/0287 . [with organometallic or metal-containing organic compounds]
16/0293 . [with natural products, oils, bitumens, residues]
16/04 . Chemically modified polycondensates
16/06  .  Block or graft polymers prepared by
polycondensation of aldehydes or ketones on to
macromolecular compounds

18/00  Polymeric products of isocyanates or
isothiocyanates

**NOTE:**
In this group, C-Sets are used.
The detailed information about the C-Sets
construction and the associated syntax rules is
present in the Definitions of C08G.

18/003  .  [with epoxy compounds having no active hydrogen
(with epoxy resins containing active hydrogen
C08G 18/58)]

18/006  .  [with aldehydes]

18/02  .  of isocyanates or isothiocyanates only

18/022  .  [the polymeric products containing isocyanurate
groups]

18/025  .  [the polymeric products containing carbodiimide
groups]

18/027  .  [the polymeric products containing urethione
groups]

18/04  .  with vinyl compounds

18/06  .  with compounds having active hydrogen

18/08  .  Processes

18/0804  .  [Manufacture of polymers containing ionic or
ionogenic groups]

18/0809  .  .  [containing cationic or cationogenic groups]

18/0814  .  .  [containing ammonium groups or groups
forming them]

18/0819  .  .  [containing anionic or anionogenic groups]

18/0823  .  .  [containing carboxylate salt groups or
groups forming them]

18/0828  .  .  [containing sulfonate groups or groups
forming them]

18/0833  .  .  [containing cationic or cationogenic groups
together with anionic or anionogenic groups]

18/0838  .  .  [Manufacture of polymers in the presence
of non-reactive compounds (preparation of
compositions C08L 75/00)]

18/0842  .  .  [in the presence of liquid diluents
(C08G 18/0804 takes precedence)]

18/0847  .  .  [in the presence of solvents for the
polymers]

18/0852  .  .  [the solvents being organic]

18/0857  .  .  [the solvent being a polyol]

18/0861  .  .  [in the presence of a dispersing phase for
the polymers or a phase dispersed in the
polymers]

18/0866  .  .  [the dispersing or dispersed phase being
an aqueous medium]

18/0871  .  .  [the dispersing or dispersed phase being
organic]

18/0876  .  .  [the dispersing or dispersed phase being
a polyol]

18/088  .  .  [Removal of water or carbon dioxide from the
reaction mixture or reaction components]

18/0885  .  .  [using additives, e.g. absorbing agents]

18/089  .  .  [Reaction retarding agents]

18/0895  .  .  [Manufacture of polymers by continuous
processes (C08G 18/0838 takes precedence)]

18/09  .  .  comprising oligomerisation of isocyanates or
isothiocyanates involving reaction of a part
of the isocyanate or isothiocyanate groups
with each other in the reaction mixture (use of
preformed oligomers C08G 18/79)

18/092  .  .  [oligomerisation to isocyanurate groups]

18/095  .  .  [oligomerisation to carbodiimide or uretone-
imine groups]

18/097  .  .  [oligomerisation to urethione groups]

18/10  .  .  Prepolymer processes involving reaction of
isocyanates or isothiocyanates with compounds
having active hydrogen in a first reaction step

**NOTE:**
In groups C08G 18/10 and C08G 18/12, C-
Sets are used.
The detailed information about the C-Sets
construction and the associated syntax rules is
present in the Definitions of C08G.

18/12  .  .  using two or more compounds having active
hydrogen in the first polymerisation step

18/14  .  .  [Manufacture of cellular products]

18/16  .  .  Catalysts (catalysts in general B01J)

18/161  .  .  .  [containing two or more components to
be covered by at least two of the groups
C08G 18/166, C08G 18/18 or C08G 18/22]

18/163  .  .  [covered by C08G 18/18 and
C08G 18/22]

18/165  .  .  .  [covered by C08G 18/18 and
C08G 18/24]

18/166  .  .  .  [Catalysts not provided for in the groups
C08G 18/18 - C08G 18/26]

18/168  .  .  .  [Organic compounds]

18/18  .  .  containing secondary or tertiary amines or
salts thereof

18/1808  .  .  [having alkylene polyamine groups]

18/1816  .  .  [having carbocyclic groups]

18/1825  .  .  [having hydroxy or primary amino
groups]

18/1833  .  .  [having ether, acetal, or orthoester groups]

18/1841  .  .  [having carbonyl groups which may be
linked to one or more nitrogen or oxygen
atoms]

18/185  .  .  [having cyano groups]

18/1858  .  .  [having carbon-to-nitrogen double bonds]

18/1866  .  .  [having carbon-to-carbon unsaturated
bonds]

18/1875  .  .  [containing ammonium salts or mixtures
of secondary of tertiary amines and acids]

18/1883  .  .  [having heteroatoms other than oxygen
and nitrogen]

18/1891  .  .  [in vaporous state]

18/20  .  .  Heterocyclic amines: Salts thereof

18/2009  .  .  .  [containing one heterocyclic ring]

18/2018  .  .  .  [having one nitrogen atom in the
ring]

18/2027  .  .  .  [having two nitrogen atoms in the
ring]

18/2036  .  .  .  [having at least three nitrogen atoms
in the ring]

18/2045  .  .  [containing condensed heterocyclic
rings]
characterised by the compounds used containing active hydrogen

18/2805 . . . . . [Compounds having only one group containing active hydrogen (vinylpolymers having terminal groups containing active hydrogen C08G 18/62)]

18/281 . . . . . [Monocarboxylic acid compounds]
18/2815 . . . . . [Monohydroxy compounds]
18/282 . . . . . [Alkanols, cycloalkanols or aroylalkanols including terpenecarcohols]
18/2825 . . . . . [having at least 6 carbon atoms]
18/283 . . . . . [Compounds containing ether groups, e.g. oxalkylated monohydroxy compounds]
18/2835 . . . . . [having less than 5 ether groups]
18/284 . . . . . [Compounds containing ester groups, e.g. oxalkylated monobenzyl acids]
18/2845 . . . . . [Monohydroxy epoxy compounds]
18/285 . . . . . [Nitrogen containing compounds]
18/2855 . . . . . [Lactams]
18/286 . . . . . [Oximes]
18/2865 . . . . . [Compounds having only one primary or secondary amino group; Ammonia]
18/287 . . . . . [Imine compounds]
18/2875 . . . . . [Monohydroxy compounds containing tertiary amino groups]
18/288 . . . . . [Compounds containing at least one heteroatom other than oxygen or nitrogen]
18/2885 . . . . . [containing halogen atoms]
18/289 . . . . . [containing silicon]
18/2895 . . . . . [Compounds containing active methylene groups]
18/30 . . . . . [Low-molecular-weight compounds (C08G 18/2805 takes precedence)]
18/302 . . . . . [Water]
18/305 . . . . . [creating amino end groups]
18/307 . . . . . [Atmospheric humidity]
18/32 . . . . . [Polyhydroxy compounds; Polyamines; Hydroxamines]
18/3203 . . . . . [Polyhydroxy compounds]
18/3206 . . . . . [aliphatic]
18/3209 . . . . . [Aliphatic aldehyde condensates and hydrogenation products thereof]
18/3212 . . . . . [containing cycloaliphatic groups]
18/3215 . . . . . [containing aromatic groups or benzoquinone groups]
18/3218 . . . . . [containing cyclic groups having at least one oxygen atom in the ring]
18/3221 . . . . . [hydroxylated esters of carboxylic acids other than higher fatty acids]
18/3225 . . . . . [Polyamines]
18/3228 . . . . . [acrylic]
18/3231 . . . . . [Hydrazine or derivatives thereof]
18/3234 . . . . . [cycloaliphatic]
18/3237 . . . . . [aromatic (C08G 18/3234 takes precedence)]
18/324 . . . . . [containing only one aromatic ring]
18/3243 . . . . . [containing two or more aromatic rings]
18/3246 . . . . . [heterocyclic, the heteroatom being oxygen or nitrogen in the form of an amino group]
18/325 . . . . . [containing secondary or tertiary amino groups (C08G 18/3228, C08G 18/3234, C08G 18/3246 take precedence)]
18/3253 . . . . . [being in latent form]
18/3256 . . . . . [Reaction products of polyamines with aldehydes or ketones]
18/3259 . . . . . [Reaction products of polyamines with inorganic or organic acids or derivatives thereof other than metallic salts]
18/3262 . . . . . [with carboxylic acids or derivatives thereof]
18/3265 . . . . . [with carbondioxide or sulfur dioxide]
18/3268 . . . . . [Salt complexes of polyamines]
18/3271 . . . . . [Hydroxamines]
18/3275 . . . . . [containing two hydroxy groups]
18/3278 . . . . . [containing at least three hydroxy groups]
18/3281 . . . . . [containing three hydroxy groups]
18/3284 . . . . . [containing four hydroxy groups]
18/3287 . . . . . [containing cycloaliphatic groups]
18/329 . . . . . [containing aromatic groups]
18/3293 . . . . . [containing heterocyclic groups]
18/3296 . . . . . [being in latent form]
18/34 . . . . . [Carboxylic acids; Esters thereof with monohydroxyl compounds]
18/341 . . . . . [Dicarboxylic acids, esters of polycarboxylic acids containing two carboxylic acid groups]
18/343 . . . . . [Polyarboxylic acids having at least three carboxylic acid groups]
18/345 . . . . . [having three carboxylic acid groups]
18/346 . . . . . [having four carboxylic acid groups]
18/348 . . . . . [Hydroxyarboxylic acids]
18/36 . . . . . [Hydroxylated esters of higher fatty acids]
18/38 . . . . . [having heteroatoms other than oxygen (C08G 18/32 takes precedence)]
18/3808 . . . . . . . [having chlorine atoms]
18/381 . . . . . . . [having bromine atoms]
18/3812 . . . . . . . [having fluorine atoms]
18/3814 . . . . . . . [Polyamines]
18/3817 . . . . . . . [Hydroxylated esters of higher fatty acids]
18/3819 . . . . . . . [having nitrogen]
18/3821 . . . . . . . [Carboxylic acids; Esters thereof with monohydryl compounds]
18/3823 . . . . . . . [containing -N=C=O groups]
18/3825 . . . . . . . [containing amide groups (C08G 18/3821 takes precedence)]
18/3827 . . . . . . . [Bicyclic amide acetics and derivatives thereof]
18/3829 . . . . . . . [having urea groups]
18/3831 . . . . . . . [containing urethane groups]
18/3834 . . . . . . . [containing hydrazide or semicarbazide groups]
18/3836 . . . . . . . [containing azo groups]
18/3838 . . . . . . . [containing cyano groups]
18/384 . . . . . . . [containing nitro groups]
18/3842 . . . . . . . [containing heterocyclic rings having at least one nitrogen atom in the ring]
18/3844 . . . . . . . [containing one nitrogen atom in the ring]
18/3846 . . . . . . . [containing imide groups (C08G 18/3821 takes precedence)]
18/3848 . . . . . . . [containing two nitrogen atoms in the ring]
18/3851 . . . . . . . [containing three nitrogen atoms in the ring]
18/3853 . . . . . . . [containing cyanurate and/or isocyanurate groups]
18/3855 . . . . . . . [having sulfur]
18/3857 . . . . . . . [having nitrogen in addition to sulfur]
18/3859 . . . . . . . [containing -N=C=S groups]
18/3861 . . . . . . . [containing sulfonylamine and/or sulfonyldiazide groups]
18/3863 . . . . . . . [containing groups having sulfur atoms between two carbon atoms, the sulfur atoms being directly linked to carbon atoms or other sulfur atoms]
18/3865 . . . . . . . [containing groups having one sulfur atom between two carbon atoms]
18/3868 . . . . . . . [the sulfur atom belonging to a sulfide group]
18/387 . . . . . . . [in addition to a perfluoroalkyl group]
18/3872 . . . . . . . [the sulfur atom belonging to a sulfoxide or sulfone group]
18/3874 . . . . . . . [containing heterocyclic rings having at least one sulfur atom in the ring]
18/3876 . . . . . . . [containing mercapto groups]
18/3878 . . . . . . . [having phosphorus]
18/388 . . . . . . . [having phosphorus bound to carbon and/or to hydrogen]
18/3882 . . . . . . . [having phosphorus bound to oxygen only]
18/3885 . . . . . . . [Phosphate compounds]
18/3887 . . . . . . . [Phosphite compounds]
18/3889 . . . . . . . [having nitrogen in addition to phosphorus]
18/3891 . . . . . . . [having sulfur in addition to phosphorus]
18/3893 . . . . . . . [having sulfur in addition to phosphorus]
18/3895 . . . . . . . [having sulfur in addition to phosphorus]
18/3897 . . . . . . . [containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon]
18/40 . . . . . . . High-molecular-weight compounds
18/4009 . . . . . . . [Two or more macromolecular compounds not provided for in one single group of groups C08G 18/42 - C08G 18/64]
18/4018 . . . . . . . [Mixtures of compounds of group C08G 18/42 with compounds of group C08G 18/48]
18/4027 . . . . . . . [Mixtures of compounds of group C08G 18/54 with other macromolecular compounds]
18/4036 . . . . . . . [Mixtures of compounds of group C08G 18/56 with other macromolecular compounds]
18/4045 . . . . . . . [Mixtures of compounds of group C08G 18/58 with other macromolecular compounds]
18/4054 . . . . . . . [Mixtures of compounds of group C08G 18/60 with other macromolecular compounds]
18/4063 . . . . . . . [Mixtures of compounds of group C08G 18/62 with other macromolecular compounds]
18/4072 . . . . . . . [Mixtures of compounds of group C08G 18/63 with other macromolecular compounds]
18/4081 . . . . . . . [Mixtures of compounds of group C08G 18/64 with other macromolecular compounds]
18/409 . . . . . . . [Dispersions of polymers of C08G in organic compounds having active hydrogen]
18/42 . . . . . . . Polycondensates having carboxylic or carboxonic ester groups in the main chain
18/4202 . . . . . . . [Two or more polyesters of different physical or chemical nature (C08G 18/44 takes precedence)]
18/4205 . . . . . . . [containing cyclic groups]
18/4208 . . . . . . . [containing aromatic groups]
18/4211 . . . . . . . [derived from aromatic dicarboxylic acids and dialcohols]
18/4213 . . . . . . . [from terephthalic acid and dialcohols]
18/4216 . . . . . . . [from mixtures or combinations of aromatic dicarboxylic acids and aliphatic dicarboxylic acids and dialcohols]
18/4219 . . . . . . . [from aromatic dicarboxylic acids and dialcohols in combination with polycarboxylic acids and/or polyhydroxy compounds which are at least trifunctional]
18/4222 . . . . . . . [derived from aromatic polyhydroxy compounds and polycarboxylic acids]
{Polyethers containing cyclic groups}
{having a low unsaturation value}
{containing at least a part of the ether alkylene group}
{Polyethers containing oxyalkylene groups having four carbon atoms in the alkylene group}
{Polyethers containing oxyalkylene groups having more than four carbon atoms in the alkylene group}
{containing at least a part of the ether groups in a side chain}
{having a low unsaturation value}
{Polyethers containing cyclic groups}
{containing cycloaliphatic groups}
Polycondensates of aldehydes with nitrogen compounds and with phenols having heteroatoms other than oxygen prepared from polyepoxy compounds or by resin acids modified with higher fatty oils or their acids of higher fatty oils or other than resin derived from carboxylic acids other than containing carboxylic ester groups having phosphorus, containing sulfur in addition to phosphorus, containing nitrogen in addition to having phosphorus bound to oxygen and/or to hydrogen, containing phosphorus bound to oxygen only, containing -N-C=O groups, containing carbocyclic groups takes precedence, reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen with at least equivalent amounts of amines containing two nitrogen atoms in the ring, containing isocyanate groups, polyether-urethane prepolymers, products of hydrolysis of polyether-urethane prepolymers containing isocyanate groups, containing primary and/or secondary amino groups, being directly linked to carbocyclic groups, being in latent form, containing carbocyclic groups (C08G 18/5024 takes precedence), containing -N-C=O groups, containing amide groups, containing urea groups, containing urethane groups, containing hydrolysis of polyether-urethane prepolymers containing isocyanate groups, containing cyano groups, containing heterocyclic rings having at least one nitrogen atom in the ring, containing one nitrogen atom in the ring, containing two nitrogen atoms in the ring, containing three nitrogen atoms in the ring, having halogens in addition to nitrogen, prepared from polyepoxy compounds, containing sulfur, having phosphorus, having phosphorus bound to carbon and/or to hydrogen, having phosphorus bound to oxygen only, phosphate compounds, phosphite compounds, having nitrogen in addition to phosphorus, having sulfur in addition to phosphorus, containing silicon, containing aromatic groups, containing cyclic groups having at least one oxygen atom in the ring, containing carboxylic ester groups derived from carboxylic acids other than acids of higher fatty oils or other than resin acids, having halogens, containing halogen atoms, having primary and/or secondary amino groups, containing halogen atoms, containing sulfur, containing nitrogen, containing halogens, being in latent form.
carbon double bonds on to polymers
polymerising compounds having carbon-to-carbon double bonds in a polymerisation of the compounds having carbon-to-carbon double bonds in a dispersion-stabiliser { characterised by the presence of a dispersion-stabiliser }

{ Polymers of alpha-beta ethylenically unsaturated carboxylic acids; hydrolyzed polymers of esters of these acids }

{ Polymers of alpha-beta ethylenically unsaturated carboxylic acids and of esters of these acids containing hydroxy groups }

{ Polymers of hydroxylated esters of unsaturated higher fatty acids }

{ Polymers of halogen containing compounds having carbon-to-carbon double bonds; halogenated polymers of compounds having carbon-to-carbon double bonds (C08G 18/6212 takes precedence) }

{ Polymers of nitrogen containing compounds having carbon-to-carbon double bonds (C08G 18/6262, C08G 18/6266 take precedence) }

{ Polymers of sulfur containing compounds having carbon-to-carbon double bonds }

{ Polymers of phosphorus containing compounds having carbon-to-carbon double bonds }

{ Polymers of silicium containing compounds having carbon-to-carbon double bonds }

Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers

{ onto polyesters and/or polycarbonates }

{ onto polyethers }

{ onto polymers of compounds having carbon-to-carbon double bonds }

{ onto unsaturated polymers }

{ characterised by the presence of a dispersion-stabiliser }

{ characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates }

[characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles]

Macromolecular compounds not provided for by groups C08G 18/42 - C08G 18/63

{ Reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen (with amines C08G 18/643; C08G 18/42, C08G 18/48 take precedence) }

{ having nitrogen }

{ Polyalkeylene polyamines; polyethylenimines; Derivatives thereof (polymides or polyesteramides C08G 18/60) }

{ Reaction products of epoxy resins with at least equivalent amounts of amines }

{ Polymides or polyesterimides }

{ Proteins and derivatives thereof }

{ having sulfur }

{ having phosphorus }

{ having silicon }

{ Bituminous materials, e.g. asphalt, coal tar, pitch; derivatives thereof }

{ Polysaccharides and derivatives thereof }

{ Lignin containing materials; Wood resins; Wood tars; Derivatives thereof }

Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (C08G 18/2805 takes precedence)
Unsaturated compounds having active hydrogen

NOTE
In groups C08G 18/67 - C08G 18/679, C-sets are used.
The detailed information about the C-sets construction and the associated syntax rules is present in the Definitions of C08G.

Unsaturated polymers not provided for in the groups C08G 18/671, C08G 18/6795, C08G 18/68 or C08G 18/69

Unsaturated compounds having only one group containing active hydrogen (takes precedence on groups C08G 18/675 - C08G 18/69)

Unsaturated monofunctional alcohols or amines

Esters of acrylic or alkyl acrylic acid having only one group containing active hydrogen

containing ester groups other than acrylate or allylacrylate ester groups

containing two or more acrylate or allylacrylate ester groups

Unsaturated compounds containing the unsaturation at least partially in a non-aromatic carbocyclic ring

Unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring

Acetylenic compounds

Low-molecular-weight compounds

Unsaturated carboxylic acids

containing the unsaturation at least partially in a non-aromatic carbocyclic ring

containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring

containing heteroatoms other than oxygen and the nitrogen of primary or secondary amino groups

containing halogen

containing nitrogen

containing phosphorus

Acetylenic compounds

Unsaturated polyethers

Unsaturated polyesters

containing cyclic groups

containing cycloaliphatic groups

Polymers of conjugated dienes

(hydrogenated polymers of conjugated dienes C08G 18/6208)

containing carboxylic acid groups

containing carboxylic ester groups

containing heteroatoms other than oxygen and other than the heteroatoms of copolymerised vinyl monomers

Mixtures with compounds of group C08G 18/40
18/70 . . . characterised by the isocyanates or isothiocyanates used
18/701 . . . [Compounds forming isocyanates or isothiocyanates in situ (C08G 18/80 takes precedence)]
18/702 . . . [Isocyanates or isothiocyanates containing compounds having carbon-to-carbon double bonds; Telomers thereof]
18/703 . . . [Isocyanates or isothiocyanates transformed in a latent form by physical means]
18/705 . . . [Dispersions of isocyanates or isothiocyanates in a liquid medium (C08G 18/702 takes precedence)]
18/706 . . . [the liquid medium being water]
18/707 . . . [the liquid medium being a compound containing active hydrogen not comprising water]
18/708 . . . [Isocyanates or isothiocyanates containing non-reactive high-molecular-weight compounds]
18/71 . . . Monoisocyanates or monoisothiocyanates
18/711 . . . [containing oxygen in addition to isocyanate oxygen]
18/712 . . . [containing halogens]
18/714 . . . [containing nitrogen in addition to isocyanate or isothiocyanate nitrogen]
18/715 . . . [containing sulfur in addition to isothiocyanate sulfur]
18/717 . . . [containing phosphorus]
18/718 . . . [containing silicon]
18/72 . . . Polyisocyanates or polyisothiocyanates
18/721 . . . [Two or more polyisocyanates not provided for in one single group C08G 18/73 - C08G 18/80]
18/722 . . . [Combination of two or more aliphatic and/or cycloaliphatic polyisocyanates]
18/724 . . . [Combination of aromatic polyisocyanates with (cyclo)aliphatic polyisocyanates]
18/725 . . . [Combination of polyisocyanates of C08G 18/78 with other polyisocyanates]
18/727 . . . [comprising distillation residues or non-distilled raw phosgenation products]
18/728 . . . [Polymerisation products of compounds having carbon-to-carbon unsaturated bonds and having isocyanate or isothiocyanate groups or groups forming isocyanate or isothiocyanate groups]
18/73 . . . acyclic
18/735 . . . [containing one isocyanate or isothiocyanate group linked to a primary carbon atom and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom]
18/74 . . . cyclic
18/75 . . . cycloaliphatic
18/751 . . . [containing only one cycloaliphatic ring]
18/752 . . . [containing at least one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group]
18/77 . . . . having heteroatoms in addition to the isocyanate or isothiocyanate nitrogen and oxygen or sulfur
18/771 . . . . {oxygen}
18/773 . . . . {halogens}
18/775 . . . . {sulfur}
18/776 . . . . {phosphorus}
18/778 . . . . {silicon}
18/78 . . . . Nitrogen {([C08G 18/775, C08G 18/776 take precedence])
18/7806 . . . . {containing -N-C=0 groups}
18/7812 . . . . {containing amide groups}
18/7818 . . . . {containing ureum or ureum derivative groups}
18/7825 . . . . {containing ureum groups}
18/7831 . . . . {containing biuret groups}
18/7837 . . . . {containing allophanate groups}
18/7843 . . . . {containing urethane groups}
18/785 . . . . {containing tertiary amino groups}
18/7856 . . . . {containing azo groups}
18/7862 . . . . {containing cyano groups or aldime or ketimine groups}
18/7868 . . . . {containing nitro groups}
18/7875 . . . . {containing heterocyclic rings having at least one nitrogen atom in the ring}
18/7881 . . . . {having one nitrogen atom in the ring}
18/7887 . . . . {having two nitrogen atoms in the ring}
18/7893 . . . . {having three nitrogen atoms in the ring}
18/79 . . . . characterised by the polyisocyanates used, these having groups formed by oligomerisation of isocyanates or isothiocyanates
18/791 . . . . {containing isocyanurate groups}
18/792 . . . . {formed by oligomerisation of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates}
18/794 . . . . {formed by oligomerisation of aromatic isocyanates or isothiocyanates}
18/795 . . . . {formed by oligomerisation of mixtures of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates with aromatic isocyanates or isothiocyanates}
18/797 . . . . {containing carbodiimide and/or urethane-imine groups}
18/798 . . . . {containing urethione groups}
18/80 . . . . Masked polyisocyanates
18/8003 . . . . {masked with compounds having at least two groups containing active hydrogen}
18/8006 . . . . {with compounds of C08G 18/32}
18/8009 . . . . {with compounds of C08G 18/3203}
18/8012 . . . . {with diols}
18/8016 . . . . {Masked aliphatic or cycloaliphatic polyisocyanates}
18/8019 . . . . {Masked aromatic polyisocyanates}
18/8022 . . . . {with polyols having at least three hydroxy groups}
18/8025 . . . . {Masked aliphatic or cycloaliphatic polyisocyanates}
18/8029 . . . . {Masked aromatic polyisocyanates}
18/8032 . . . . {Masked aliphatic or cycloaliphatic polyisocyanates not provided for in one single of the groups C08G 18/8016 and C08G 18/8025}
18/8035 . . . . {Masked aromatic polyisocyanates not provided for in one single of the groups C08G 18/8019 and C08G 18/8022}
18/8038 . . . . {with compounds of C08G 18/3225}
18/8041 . . . . {with compounds of C08G 18/3271}
18/8045 . . . . {with water}
18/8048 . . . . {with compounds of C08G 18/34}
18/8051 . . . . {with compounds of C08G 18/36}
18/8054 . . . . {with compounds of C08G 18/38}
18/8058 . . . . {with compounds of C08G 18/3819}
18/8061 . . . . {masked with compounds having only one group containing active hydrogen}
18/8064 . . . . {with monohydroxy compounds}
18/8067 . . . . {phenolic compounds}
18/807 . . . . {with nitrogen containing compounds}
18/8074 . . . . {Lactams}
18/8077 . . . . {Oximes}
18/808 . . . . {Monoamines}
18/8083 . . . . {with compounds containing at least one heteroatom other than oxygen or nitrogen}
18/8087 . . . . {containing halogen atoms}
18/809 . . . . {containing silicon}
18/8093 . . . . {Compounds containing active methylene groups}
18/8096 . . . . {with two or more compounds having only one group containing active hydrogen}
18/81 . . . Unsaturated isocyanates or isothiocyanates
NOTE
In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08G.
18/8108 . . . . {having only one isocyanate or isothiocyanate group}
18/8116 . . . . {esters of acrylic or alkylacrylic acid having only one isocyanate or isothiocyanate group}
18/8125 . . . . {having two or more isocyanate or isothiocyanate groups}
18/8133 . . . . {having acetylenic groups}
18/8141 . . . . {masked}
18/815 . . . . {Polyisocyanates or polyisothiocyanates masked with unsaturated compounds having active hydrogen}
18/8158 . . . . {with unsaturated compounds having only one group containing active hydrogen}
18/8166 . . . . {with unsaturated monofunctional alcohols or amines}
epoxy groups curing agents or catalysts which react with the epoxy compounds obtained by polymerising compounds containing more than one epoxy group per molecule using curing agents or catalysts which react with the epoxy groups (e.g. general methods of curing)

Macromolecules obtained by polymerising compounds containing more than one epoxy group per molecule using curing agents or catalysts which react with the epoxy groups are classified only in groups C08G 59/02 - 59/12.
characterised by the curing agents used

\[\text{Curing agents not provided for by the groups C08G 59/42 - C08G 59/66}\]

- Nitrogen containing compounds
- [Ureas; Thioureas; Guanidines; Dicyandiamides]
- [Isocyanates; Thioisocyanates]
- [Hydrazines; Hydrazides]
- [Imines; Imides]
- [Oximes]
- [Carbamates]
- [sulfur containing compounds (C08G 59/4021, C08G 59/4028 take precedence)]
- [phosphorus containing compounds]
- [boron containing compounds]
- [silicon containing compounds]
- [titanium containing compounds]
- Polycarboxylic acids; Anhydrides, halides or low molecular weight esters thereof
- [aliphatic]
- [cycloaliphatic]
- [aromatic]
- [containing an atom other than oxygen belonging to a functional groups to C08G 59/42, carbon and hydrogen]
- [heterocyclic]
- [polymers with carboxylic terminal groups]
- [Macromolecular compounds obtained by reactions involving only unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)]
- [Macromolecular compounds obtained by reactions other than those involving unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)]
- [Polysters]
- [together with other curing agents]
- [together with monocarboxylic acids]
- Amides
- [Thiouamides]
- [Sulfonamides]
- [Phosphoramides]
- [Lactames]
- together with other curing agents
- with polycarboxylic acids, or with anhydrides, halides or low-molecular-weight esters thereof
- Amines
- [aliphatic]
- [containing more than seven carbon atoms, e.g. fatty amines]
- [Polyalkylene polyamines]
- [cycloaliphatic]
- [aromatic]
- [containing an atom other than nitrogen belonging to the amine group, carbon and hydrogen]
- [heterocyclic]
- [containing only nitrogen as a heteroatom]
- [having one nitrogen atom in the ring]
- [Aziridines or their derivatives]
- [having two nitrogen atoms in the ring]
- [having three nitrogen atoms in the ring]
- [Amines; Thioureas; Guanidines; Dicyandiamides]
- [Isocyanates; Thioisocyanates]
- [Hydrazines; Hydrazides]
- [Imines; Imides]
- [Oximes]
- [Alcohols or phenols]
- [Metal alcoholates, phenolates or carboxylates]
- [Alcoholates]
- [Phenolates]
- [Carboxylates]
- [containing nitrogen]
- [containing sulfur]
- [containing phosphorus]
- Chelates
- Complexes of boron halides

61/00 Macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain of the macromolecule (C08G 2/00 - C08G 16/00 take precedence)

**NOTE**
In this group, it is desirable to add the indexing codes C08G 2261/00 - C08G 2261/064

61/02 Macromolecular compounds containing only carbon atoms in the main chain of the macromolecule, e.g. polyxylylenes

61/025 [Polyxylylenes]

61/04 only aliphatic carbon atoms

61/06 prepared by ring-opening of carbocyclic compounds

61/08 of carbocyclic compounds containing one or more carbon-to-carbon double bonds in the ring

61/10 only aromatic carbon atoms, e.g. polyphenylenes

61/12 Macromolecular compounds containing atoms other than carbon in the main chain of the macromolecule

61/121 [derived from organic halides]

61/122 [derived from five- or six-membered heterocyclic compounds, other than imides]
Macromolecular compounds obtained by reactions forming a carboxylic ester link in the main chain of the macromolecule (polyester-imides C08G 69/44; polyester-amides C08G 73/16)

NOTE

Compounds characterised by the chemical constitution of the polyesters are classified in the groups for the type of polyester compound. Compounds characterised by the preparation process of the polyesters are classified in groups C08G 63/78-C08G 63/87, for the process employed. Compounds characterised both by the chemical constitution and by the preparation process are classified according to each of these aspects.

63/00 . . . . [derived from five-membered heterocyclic compounds]
63/124 . . . . [with a five-membered ring containing one nitrogen atom in the ring]
63/125 . . . . [with a five-membered ring containing one oxygen atom in the ring]
63/126 . . . . [with a five-membered ring containing one sulfur atom in the ring]
63/127 . . . . [derived from carbon dioxide, carbonyl halide, carboxylic acids or their derivatives]
63/005 . . . . (Polyesters prepared from ketenes)
63/02 . . . . Polymers derived from hydroxycarboxylic acids or from polycarboxylic acids and polyhydroxy compounds
63/06 . . . . derived from hydroxycarboxylic acids
63/065 . . . . [the hydroxy and carboxylic ester groups being bound to aromatic rings]
63/08 . . . . Lactones or lactides
63/12 . . . . derived from polycarboxylic acids and polyhydroxy compounds
63/123 . . . . the acids or hydroxy compounds containing carbocyclic rings
63/127 . . . . Acids containing aromatic rings
63/13 . . . . containing two or more aromatic rings
63/133 . . . . Hydroxy compounds containing aromatic rings
63/137 . . . . Acids or hydroxy compounds containing cycloaliphatic rings
63/16 . . . . Dicarboxylic acids and dihydroxy compounds
63/18 . . . . the acids or hydroxy compounds containing carbocyclic rings
63/181 . . . . Acids containing aromatic rings
63/183 . . . . Terephthalic acids
63/185 . . . . containing two or more aromatic rings
63/187 . . . . containing condensed aromatic rings
63/189 . . . . containing a naphthalene ring
63/19 . . . . Hydroxy compounds containing aromatic rings
63/191 . . . . Hydroquinones
63/193 . . . . containing two or more aromatic rings
63/195 . . . . Bisphenol A
63/197 . . . . containing condensed aromatic rings
63/199 . . . . Acids or hydroxy compounds containing cycloaliphatic rings
63/20 . . . . Polymers having been prepared in the presence of compounds having one reactive group or more than two reactive groups
63/21 . . . . in the presence of unsaturated monocarboxylic acids or unsaturated monohydric alcohols or reactive derivatives thereof
63/40 . . . . Polymers derived from ester-forming derivatives of polycarboxylic acids or of polyhydroxy compounds, other than from esters thereof
63/42 . . . . Cyclic ethers (C08G 59/00 takes precedence); Cyclic carbonates; Cyclic sulfites; Cyclic orthoesters
63/44 . . . . Polymides; Polynitriles
63/46 . . . . Polymers chemically modified by esterification (C08G 63/20 takes precedence; by after-treatment C08G 63/91)
63/47 . . . . by unsaturated monocarboxylic acids or unsaturated monohydric alcohols or reactive derivatives thereof
63/48 . . . . by unsaturated higher fatty oils or their acids; by resin acids
63/50 . . . . by monohydric alcohols
63/52 . . . . Polycarboxylic acids or polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation
63/54 . . . . the acids or hydroxy compounds containing carbocyclic rings
63/547 . . . . Hydroxy compounds containing aromatic rings
63/553 . . . . Acids or hydroxy compounds containing cycloaliphatic rings, e.g. Diels-Alder adducts
63/56 . . . . Polymers derived from ester-forming derivatives of polycarboxylic acids or of polyhydroxy compounds other than from esters thereof
63/58 . . . . Cyclic ethers (C08G 59/00 takes precedence); Cyclic carbonates; Cyclic sulfites; Cyclic orthoesters
63/60 . . . . derived from the reaction of a mixture of hydroxy carboxylic acids, polycarboxylic acids and polyhydroxy compounds
63/605 . . . . [the hydroxy and carboxylic groups being bound to aromatic rings]
63/64 . . . . Polymers containing both carboxylic ester groups and carbonate groups
63/66 . . . . Polymers containing oxygen in the form of ester groups (C08G 63/42; C08G 63/58 take precedence)
63/664 . . . . derived from hydroxy carboxylic acids
63/668 . . . . derived from polycarboxylic acids and polyhydroxy compounds
63/672 . . . . Dicarboxylic acids and dihydroxy compounds
63/676 . . . . in which at least one of the two components contains aliphatic unsaturation
63/68 . . . . Polymers containing atoms other than carbon, hydrogen and oxygen (C08G 63/64 takes precedence)
63/681 . . . . [containing elements not provided for by groups C08G 63/682 - C08G 63/698]
63/682 . . . . containing halogenes
63/6822 . . . . [derived from hydroxy carboxylic acids]
63/6824 . . . . [derived from polycarboxylic acids and polyhydroxy compounds]
63/6826 . . . . [Dicarboxylic acids and dihydroxy compounds]
Preparation processes
characterised by the catalyst used
Solid-state polycondensation
Interfacial processes, i.e. processes involving
containing boron
containing silicon
containing phosphorus
containing sulfur
containing nitrogen
containing aliphatic unsaturation
containing carbon, hydrogen
containing atoms other than carbon, hydrogen
containing halogens
containing nitrogen
containing sulfur
containing phosphorus
containing silicon
containing boron
containing other elements
containing unsaturated
Aromatic polycarbonates
Aliphatic polycarbonates
Alkaline earth metals, beryllium, magnesium, copper, silver, gold, zinc, cadmium, mercury, manganese, or compounds thereof
Boron, aluminium, gallium, indium, thallium, rare-earth metals, or compounds thereof
Germanium, tin, lead, arsenic, antimony, bismuth, titanium, zirconium, hafnium, vanadium, niobium, tantalum, or compounds thereof
Germanium, antimony, or compounds thereof
Post-polymerisation treatment
Recovery of the polymer
Purification; Drying
Polymers modified by chemical after-treatment
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
[derived from hydroxy carboxylic acids]
[derived from polycarboxylic acids and polyhydroxy compounds]
[Dicarboxylic acids and dihydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds]
[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation]
64/088 . . . . [containing other elements]
64/10 . . . . containing halogens
64/12 . . . . containing nitrogen
64/14 . . . . containing a chain-terminating or -crosslinking agent
64/16 . . . . Aliphatic-aromatic or araliphatic polycarbonates
64/1608 . . . (saturated)
64/1616 . . . [containing a chain-terminating or -crosslinking agent]
64/1625 . . . [containing atoms other than carbon, hydrogen or oxygen]
64/1633 . . . . [containing halogens]
64/1641 . . . . [containing nitrogen]
64/165 . . . . [containing sulfur]
64/1658 . . . . [containing phosphorus]
64/1666 . . . . [containing silicon]
64/1675 . . . . [containing boron]
64/1683 . . . . [containing other elements]
64/1691 . . . . (unsaturated)
64/18 . . . . Block or graft polymers
64/1803 . . . . [containing polyether sequences]
64/1886 . . . . [containing polysiloxane sequences]
64/20 . . . . General preparatory processes
64/205 . . . . [characterised by the apparatus used]
64/22 . . . . using carboxyl halides
64/223 . . . . [and cyclic ethers]
64/226 . . . . [and alcohols]
64/24 . . . . and phenols
64/26 . . . . using halocarbonates
64/263 . . . . [and cyclic ethers]
64/266 . . . . [and alcohols]
64/28 . . . . and phenols
64/30 . . . . using carbonates
64/302 . . . . [and cyclic ethers]
64/305 . . . . [and alcohols]
64/307 . . . . [and phenols]
64/32 . . . . using carbon dioxide
64/323 . . . . [and alcohols]
64/326 . . . . [and phenols]
64/34 . . . . and cyclic ethers
64/36 . . . . using carbon monoxide
64/38 . . . . using other monomers
64/40 . . . . Post-polymerisation treatment
64/403 . . . . [Recovery of the polymer]
64/406 . . . . [Purifying; Drying]
64/42 . . . . Chemical after-treatment
65/00 Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule
65/002 . . . . [from unsaturated compounds (unsaturated oxiranes C08G 65/14)]
65/005 . . . . [containing halogens]
65/007 . . . . [containing fluorine]
65/02 . . . . from cyclic ethers by opening of the heterocyclic ring
65/04 . . . . from cyclic ethers only
65/06 . . . . Cyclic ethers having no atoms other than carbon and hydrogen outside the ring
65/08 . . . . Saturated oxiranes
65/10 . . . . characterised by the catalysts used
65/105 . . . . [Onium compounds]
65/12 . . . . containing organo-metallic compounds or metal hydrides
65/14 . . . . Unsaturated oxiranes
65/16 . . . . Cyclic ethers having four or more ring atoms
65/18 . . . . Oxetanes
65/20 . . . . Tetrahydrofuran
65/22 . . . . Cyclic ethers having at least one atom other than carbon and hydrogen outside the ring
65/223 . . . . [containing halogens (epihalohydrins C08G 65/24)]
65/226 . . . . [containing fluorine]
65/24 . . . . Ephihalohydrins
65/26 . . . . from cyclic ethers and other compounds
65/2603 . . . . [the other compounds containing oxygen]
65/2606 . . . . [containing hydroxyl groups]
65/2609 . . . . [containing aliphatic hydroxyl groups]
65/2612 . . . . [containing aromatic or alyaliphatic hydroxyl groups]
65/2615 . . . . [the other compounds containing carboxylic acid, ester or anhydride groups]
65/2618 . . . . [the other compounds containing nitrogen]
65/2621 . . . . [containing amine groups]
65/2624 . . . . [containing aliphatic amine groups]
65/2627 . . . . [containing aromatic or alyaliphatic amine groups]
65/263 . . . . [containing heterocyclic amine groups]
65/2633 . . . . [the other compounds containing amide groups]
65/2636 . . . . [the other compounds containing sulfur]
65/2639 . . . . [the other compounds containing elements other than oxygen, nitrogen or sulfur]
65/2642 . . . . [characterised by the catalyst used]

NOTES
1. In this group classification is made according to the metal in the compounds, if any
2. In this group boron is considered a metal and magnesium as an alkaline earth metal

65/2645 . . . . [Metals or compounds thereof, e.g. salts]
65/2648 . . . . [Alkali metals or compounds thereof]
65/2651 . . . . [Alkaline earth metals or compounds thereof]
65/2654 . . . . [Aluminum or boron; Compounds thereof]
65/2657 . . . . [Aluminosilicates; Clays; Zeolites]
65/266 . . . . [Metallic elements not covered by group C08G 65/2648 - C08G 65/2645 or compounds thereof]
65/2663 . . . . [Metal cyanide catalysts, i.e. DMC's]
65/2666 . . . . [Heteropolyacids]
65/2669 . . . . [Non-metals or compounds thereof (boron C08G 65/2654)]
65/2672 . . . . [Nitrogen or compounds thereof]
65/2675 . . . . [Phosphorus or compounds thereof]
65/2678 . . . . [Sulfur or compounds thereof]
65/2681 . . . . [Silicon or compounds thereof (silicates C08G 65/2657)]
65/2684 . . . . [Halogens or compounds thereof]
65/2687 . . . . [Elements not covered by groups C08G 65/267 - C08G 65/2684 or compounds thereof]
65/269 . . . . . . . [Mixed catalyst systems, i.e. containing more than one reactive component or catalysts formed in-situ]
65/2693 . . . . . . . [Supported catalysts]
65/2696 . . . . . . . [characterised by the process or apparatus used]
65/30 . . . . . Post-polymerisation treatment, e.g. recovery, purification, drying
65/32 . . . . . Polymers modified by chemical after-treatment
65/321 . . . . . with inorganic compounds
65/322 . . . . . containing hydrogen
65/323 . . . . . containing halogens
65/3233 . . . . . (Molecular halogen)
65/3236 . . . . . (Fluorine)
65/324 . . . . . containing oxygen
65/3245 . . . . . (Carbodiimide)
65/325 . . . . . containing nitrogen
65/3255 . . . . . (Ammonia)
65/326 . . . . . containing sulfur
65/3265 . . . . . (Sulfur dioxide)
65/327 . . . . . containing phosphorus
65/328 . . . . . containing other elements
65/329 . . . . . with organic compounds
65/331 . . . . . containing oxygen (cyclic ether compounds
65/3311 . . . . . [containing a hydroxy group]
65/3312 . . . . . (acylic)
65/3314 . . . . . (cyclic)
65/3315 . . . . . (aromatic)
65/3317 . . . . . [phenolic]
65/3318 . . . . . (heterocyclic)
65/332 . . . . . containing carboxyl groups, or halides, or esters thereof
65/3322 . . . . . (acylic)
65/3324 . . . . . (cyclic)
65/3326 . . . . . (aromatic)
65/3328 . . . . . (heterocyclic)
65/333 . . . . . containing nitrogen
65/33303 . . . . . [containing amino group]
65/33306 . . . . . (acylic)
65/3331 . . . . . (cyclic)
65/33313 . . . . . (aromatic)
65/33317 . . . . . (heterocyclic)
65/3332 . . . . . (containing carboxamide group)
65/33324 . . . . . (acylic)
65/33327 . . . . . (cyclic)
65/33331 . . . . . (containing imide group)
65/33334 . . . . . (acylic)
65/33337 . . . . . (cyclic)
65/33341 . . . . . (aromatic)
65/33344 . . . . . (containing carbamate group)
65/33348 . . . . . (containing isocyanate group)
65/33351 . . . . . (acylic)
65/33355 . . . . . (cyclic)
65/33358 . . . . . (aromatic)
65/33362 . . . . . (heterocyclic)
65/33365 . . . . . (containing cyano group)
65/33368 . . . . . (acylic)
65/33372 . . . . . (acylonitrile)
65/33375 . . . . . (cyclic)
65/33379 . . . . . (containing nitro group)
65/33382 . . . . . (acylic)
65/33386 . . . . . (cyclic)
65/33389 . . . . . (aromatic)
65/33393 . . . . . (heterocyclic)
65/33396 . . . . . (having oxygen in addition to nitrogen)
65/334 . . . . . containing sulfur
65/3342 . . . . . (having sulfur bound to carbon and hydrogen)
65/3344 . . . . . (containing oxygen in addition to sulfur)
65/3346 . . . . . (having sulfur bound to carbon and oxygen)
65/3348 . . . . . (containing nitrogen in addition to sulfur)
65/335 . . . . . containing phosphorus
65/3351 . . . . . (having phosphorus bound to carbon and hydrogen)
65/3353 . . . . . (containing oxygen in addition to phosphorus)
65/3355 . . . . . (having phosphorus bound to carbon and oxygen)
65/3356 . . . . . (having nitrogen in addition to phosphorus)
65/3358 . . . . . (having sulfur in addition to phosphorus)
65/336 . . . . . containing silicon
65/337 . . . . . containing other elements (organic compounds containing halogens only as halides of a carbonyl group C08G 65/352)
65/338 . . . . . with inorganic and organic compounds
65/34 . . . . . from hydroxy compounds or their metallic derivatives \(C08G 65/26\) takes precedence
65/36 . . . . . Furfuryl alcohol
65/38 . . . . . derived from phenols
65/40 . . . . . from phenols (I) and other compounds (II), e.g. OH-Ar-OH + X-Ar-X, where X is halogen atom, i.e. leaving group
65/4006 . . . . . \((I) or (II) containing elements other than carbon, oxygen, hydrogen or halogen as leaving group (X)\)
65/4012 . . . . . \((I) or (II) containing a ketone group, e.g. X-Ar-C(=O)-Ar-X for polyetherketones\)
65/4018 . . . . . \((I) or (II) containing halogens other than as leaving group (X)\)
65/4025 . . . . . \((I) or (II) containing fluorne other than as leaving group (X)\)
65/4031 . . . . . \((I) or (II) containing nitrogen\)
65/4037 . . . . . \((I) or (II) containing oxygen than as phenol or carbonyl group\)
65/405 . . . . . \((I) or (II) containing oxygen other than as phenol or carbonyl group\)
65/4056 . . . . . \((I) or (II) containing sulfur (as the sulfone group C08G 75/23)\)
65/4062 . . . . . \((I) or (II) containing sulfur\)
65/4068 . . . . . \((I) or (II) containing elements not covered by groups C08G 65/4018 - C08G 65/4056\)
65/4075 . . . . . \(from self-polymerisable monomers, e.g. OH-Ar-X\)
65/4081 . . . . . \(forming cyclic polymers or oligomers\)
65/4087 . . . . . \(characterised by the catalyst used\)
65/4093 . . . . . \(characterised by the process or apparatus used\)
65/42 . . . . . Phenols and polyhydroxy ethers
65/44 . . . . . by oxidation of phenols
Macromolecular compounds obtained by reactions forming a linkage containing oxygen with or without nitrogen or carbon in the main chain of the macromolecule, not provided for in groups C08G 12/00 - C08G 71/00 (polycarbodiimides prepared from isocyanates C08G 18/025, C08G 18/797)

73/02 . Polyamines
73/0206 . {Polyalkylene(poly)amines}
73/0213 . {Preparatory process}
73/0222 . . . . . . . . . . . . . . . {from polyamines and epimelodyridins}
73/0226 . . . . . . . . . . . . . . . {Quaternisation of polyalkylene(poly)amines}
73/0233 . . . . . . . . . . . . . . . {Polyamines derived from (poly)oxazolines, (poly)oxazines or having pendant acyl groups}
73/024 . . . . . . . . . . . . . . . {Polyamines containing oxygen in the form of ether bonds in the main chain}
73/0246 . . . . . . . . . . . . . . . {Polyamines containing other atoms than carbon, hydrogen, nitrogen or oxygen in the main chain}
73/0253 . . . . . . . . . . . . . . . {Polyamines containing sulfur in the main chain}
73/026 . . . . . . . . . . . . . . . {Wholly aromatic polyamines}
73/0266 . . . . . . . . . . . . . . . {Polyanilines or derivatives thereof}
73/0273 . . . . . . . . . . . . . . . {Polyamines containing heterocyclic moieties in the main chain}
73/028 . . . . . . . . . . . . . . . {Polyamidoamines}
73/0286 . . . . . . . . . . . . . . . {Preparatory process from polyamidoamines and epimelodyridins}
73/0293 . . . . . . . . . . . . . . . {Quaternisation of polyamidoamines}
73/06 . . . . . . . . . . . . . . . {Polychlorides having nitrogen-containing heterocyclic rings in the main chain of the macromolecule}

NOTES

1. In this subgroup, "spiro" and "bridged" compounds are considered as condensed.
2. Heterocyclic rings containing both nitrogen and sulfur are classified in subgroups C08G 75/00 - C08G 75/32

73/0605 . . . . . . . . . . . . . . . {Polycondensates containing five-membered rings, not condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0611 . . . . . . . . . . . . . . . {with only one nitrogen atom in the ring, e.g. polypyrroles (polycyuanimidines C08G 73/1092)}
73/0616 . . . . . . . . . . . . . . . {with only two nitrogen atoms in the ring}
73/0622 . . . . . . . . . . . . . . . {Polycondensates containing six-membered rings, not condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0627 . . . . . . . . . . . . . . . {with only one nitrogen atom in the ring}
73/0633 . . . . . . . . . . . . . . . {with only two nitrogen atoms in the ring}
73/0638 . . . . . . . . . . . . . . . {with at least three nitrogen atoms in the ring}
73/0644 . . . . . . . . . . . . . . . {Poly(1,3,5)triazines}
73/065 . . . . . . . . . . . . . . . {Preparatory processes}
73/0655 . . . . . . . . . . . . . . . {from polycyanurates}
73/0661 . . . . . . . . . . . . . . . {characterised by the catalyst used}
73/0666 . . . . . . . . . . . . . . . {Polycondensates containing five-membered rings, condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0672 . . . . . . . . . . . . . . . {with only one nitrogen atom in the ring}
73/0677 . . . . . . . . . . . . . . . {with only two nitrogen atoms in the ring}
73/0683  . . . [Polycondensates containing six-membered rings, condensed with other rings, with nitrogen atoms as the only ring hetero atoms]
73/0688  . . . [with only one nitrogen atom in the ring, e.g. polyquinoxalines]
73/0694  . . . [with only two nitrogen atoms in the ring, e.g. polyquinolines]
73/08  . . . Polyhydrazides; Polytetrazoles; Polyaminotriazoles; Polyoxadiazoles
73/10  . . . Polymides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
73/1003 . . . [Preparatory processes]
73/1007 . . . [from tetracarboxylic acids or derivatives and diamines]
73/101 . . . [containing chain terminating or branching agents]
73/1014 . . . [in the form of (mono)anhydrid]
73/1017 . . . [in the form of (mono)amine]
73/1021 . . . [characterised by the catalyst used]
73/1025 . . . [polymered by radiations]
73/1028 . . . [characterised by the process itself, e.g. steps, continuous]
73/1032 . . . [characterised by the solvent(s) used]
73/1035 . . . [from tetracarboxylic acids or derivatives and diisocyanates]
73/1039 . . . [comprising halogen-containing substituents]
73/1042 . . . [Copolymides derived from at least two different tetracarboxylic compounds or two different diamino compounds]
73/1046 . . . [Polyimides containing oxygen in the form of ether bonds in the main chain]
73/105 . . . [with oxygen only in the diamino moiety]
73/1053 . . . [with oxygen only in the tetracarboxylic moiety]
73/1057 . . . [Polyimides containing other atoms than carbon, hydrogen, nitrogen or oxygen in the main chain]
73/106 . . . [containing silicon]
73/1064 . . . [containing sulfur]
73/1067 . . . [Wholly aromatic polyimides, i.e. having both tetracarboxylic and diamino moieties aromatically bound]
73/1071 . . . [Wholly aromatic polyimides containing oxygen in the form of ether bonds in the main chain]
73/1075 . . . [Partially aromatic polyimides]
73/1078 . . . [wholly aromatic in the diamino moiety]
73/1082 . . . [wholly aromatic in the tetracarboxylic moiety]
73/1085 . . . [Polyimides with diamino moieties or tetracarboxylic segments containing heterocyclic moieties]
73/1089 . . . [Polysulfoimidines]
73/1092 . . . [Polysuccinimides]
73/1096 . . . [containing azo linkage in the main chain]
73/12 . . . Unsaturated polyimide precursors
73/121 . . . [Preparatory processes from unsaturated precursors and polyamines]
73/122 . . . [containing chain terminating or branching agents]
73/123 . . . [the unsaturated precursors comprising halogen-containing substituents]
73/124 . . . . . [the unsaturated precursors containing oxygen in the form of ether bonds in the main chain]
73/125 . . . . . [the unsaturated precursors containing atoms other than carbon, hydrogen, oxygen or nitrogen in the main chain]
73/126 . . . . . [the unsaturated precursors being wholly aromatic]
73/127 . . . . . [containing oxygen in the form of ether bonds in the main chain]
73/128 . . . . . [the unsaturated precursors containing heterocyclic moieties in the main chain]
73/14  . . . Polyamide-imides
73/16  . . . Polyester-imides
73/18  . . . Polybenzimidazoles
73/20  . . . . Pyrones
73/22  . . . Polybenzoxazoles
73/24  . . . Copolymers of a fluoronitroso organic compound and another fluoro organic compound, e.g. nitroso rubbers
73/26  . . . . of trifluoronitrosomethane with a fluoro-olefin
75/00  Macromolecular compounds obtained by reactions forming a linkage containing sulfur with or without nitrogen, oxygen, or carbon in the main chain of the macromolecule
75/02  . . . Polythioethers
75/0204  . . . Polyaarylenethioethers

NOTES
1. In this group, macromolecular compounds are classified for the inventive aspects which are relevant in any of the following sets of groups:
   - C08G 75/0209-C08G 75/0245;
   - C08G 75/025-C08G 75/0268;
   - C08G 75/0277-C08G 75/0281;
   - C08G 75/0286-C08G 75/0289.
2. Within each set of groups mentioned in Note (1), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

WARNING
Groups C08G 75/0204-C08G 75/0281 are incomplete pending reclassification of documents from groups C08G 75/004 and C08G 75/045.
All groups listed in this Warning should be considered in order to perform a complete search.

75/0209  . . . derived from monomers containing one aromatic ring
75/0213  . . . containing elements other than carbon, hydrogen or sulfur
75/0218  . . . . . [containing oxygen]
75/0222  . . . . . containing nitrogen
75/0227  . . . . . derived from monomers containing two or more aromatic rings
75/0231  . . . . . containing chain-terminating or chain-branching agents
75/0236  . . . . . containing atoms other than carbon or sulfur in a linkage between arylene groups
75/024  . . . . . containing carbonyl groups
75/0245 . . . Block or graft polymers

**WARNING**

Group C08G 75/0245 is incomplete pending reclassification of documents from group C08G 75/12.
Groups C08G 75/12 and C08G 75/0245 should be considered in order to perform a complete search.

75/025 . . . Preparatory processes
75/0254 . . . using metal sulfides
75/0259 . . . metal hydrogensulfides
75/0263 . . . using elemental sulfur
75/0268 . . . using disulfides
75/0272 . . . [using other sulfur sources]
75/0277 . . . Post-polymerisation treatment (chemical after-treatment C08G 75/0286)

**WARNING**

Groups C08G 75/0277 and C08G 75/0281 are incomplete pending reclassification of documents from groups C08G 75/04 and C08G 75/045. Groups C08G 75/0277 and C08G 75/0281 are also impacted by reclassification into groups C08G 75/0286-C08G 75/0295.

All groups listed in this Warning should be considered in order to perform a complete search.

75/0281 . . . Recovery or purification
75/0286 . . . Chemical after-treatment

**WARNING**

Groups C08G 75/0286-C08G 75/0295 are incomplete pending reclassification of documents from group C08G 75/0245.

Copolymers of sulfur dioxide with unsaturated aliphatic compounds
75/029 . . . Modification with organic compounds
75/0295 . . . Modification with inorganic compounds
75/04 . . . from mercapto compounds or metallic derivatives thereof (C08G 75/0204 takes precedence)

**WARNING**

Groups C08G 75/04 and C08G 75/045 are impacted by reclassification into groups C08G 75/0204-C08G 75/0295.

All groups listed in this Warning should be considered in order to perform a complete search.

75/045 . . . from mercapto compounds and unsaturated compounds
75/06 . . . from cyclic thioethers
75/08 . . . from thiranes
75/10 . . . from sulfur or sulfur-containing compounds and aldehydes or ketones

75/12 . . . Polythioether-ethers (C08G 75/0245 takes precedence)

**WARNING**

Group C08G 75/12 is impacted by reclassification into group C08G 75/0245.
Groups C08G 75/12 and C08G 75/0245 should be considered in order to perform a complete search.

75/14 . . . Polysulfides
75/16 . . . by polycondensation of organic compounds with inorganic polysulfides
75/18 . . . Polysulfoxides
75/20 . . . Polysulfones
75/205 . . . Copolymers of sulfur dioxide with unsaturated organic compounds
75/22 . . . Copolymers of sulfur dioxide with unsaturated aliphatic compounds
75/23 . . . Polyethersulfones
75/24 . . . Polysulfonates
75/26 . . . Polythioesters
75/28 . . . Polythiocarbonates
75/30 . . . Polysulfonamides; Polysulfonimides
75/32 . . . Polythiazoles; Polythiadiazoles
77/00 . . . Macromolecular compounds obtained by reactions forming a linkage containing silicon with or without sulfur, nitrogen, oxygen or carbon in the main chain of the macromolecule
77/02 . . . Polysilicates
77/04 . . . Polysiloxanes
77/045 . . . [containing less than 25 silicon atoms]
77/06 . . . Preparatory processes { (C08G 77/045 takes precedence) }
77/08 . . . characterised by the catalysts used
77/10 . . . Equilibration processes
77/12 . . . containing silicon bound to hydrogen { (C08G 77/045 takes precedence) }
77/14 . . . containing silicon bound to oxygen-containing groups { (C08G 77/045 takes precedence) }
77/16 . . . to hydroxyl groups
77/18 . . . to alkoxy or aryloxy groups
77/20 . . . containing silicon bound to unsaturated aliphatic groups { (C08G 77/045 takes precedence) }
77/22 . . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen and oxygen { (C08G 77/045 takes precedence) }
77/24 . . . halogen-containing groups
77/26 . . . nitrogen-containing groups
77/28 . . . sulfur-containing groups
77/30 . . . phosphorus-containing groups
77/32 . . . Post-polymerisation treatment { (C08G 77/045 takes precedence) } chemical after-treatment C08G 77/38)
77/34 . . . Purification
77/36 . . . Fractionation
77/38 . . . Polysiloxanes modified by chemical after-treatment { (C08G 77/045 takes precedence) }
77/382 . . . containing atoms other than carbon, hydrogen, oxygen or silicon
77/385 . . . containing halogens
77/388 . . . containing nitrogen
77/392 . . . containing sulfur
Macromolecular compounds obtained by reactions forming a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon (with or without the latter elements in the main chain of the macromolecule)  

- 79/02 . . . a linkage containing phosphorus  
- 79/04 . . . Phosphorus linked to oxygen or to oxygen and carbon  
- 79/06 . . . Phosphorus linked to carbon only  
- 79/08 . . . a linkage containing boron  
- 79/10 . . . a linkage containing aluminum  
- 79/12 . . . a linkage containing tin  
- 79/14 . . . a linkage containing two or more elements other than carbon, oxygen, nitrogen, sulfur and silicon  

Macromolecular compounds obtained by interreacting polymers in the absence of monomers, e.g. block polymers (involving only carbon-to-carbon unsaturated bond reactions C08F 299/00)  

- 81/02 . . . at least one of the polymers being obtained by reactions involving only carbon-to-carbon unsaturated bonds  
- 81/021 . . . (Block or graft polymers containing only sequences of polymers of C08C or C08F)
. Compositions for coatings applied by spraying at least two streams of reaction components
. Compositions for foaming; Foamed or intumescent coatings
. Compositions for anticorrosive coatings

**2261/00** Compositions for adhesives (not used)

2261/00 . Compositions for hot melt adhesives
2261/40 . Compositions for pressure-sensitive adhesives
2261/60 . Compositions for foaming; Foamed or intumescent adhesives

2261/80 . Compositions for aqueous adhesives
2261/90 . Compositions for adhesives used in footwear

**2190/00** Compositions for sealing or packing joints

**2210/00** Compositions for preparing hydrogels

**2220/00** Compositions for preparing gels other than hydrogels, aerogels and xerogels

**2230/00** Compositions for preparing biodegradable polymers

**2250/00** Compositions for preparing crystalline polymers

**2261/00** Macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain of the macromolecule

2261/10 . Definition of the polymer structure
2261/11 . Homopolymers
2261/12 . Copolymers
2261/122 . statistical
2261/124 . alternating
2261/126 . block
2261/128 . graft
2261/13 . Morphological aspects
2261/131 . dendritic
2261/132 . branched or hyperbranched
2261/133 . Rod-like building block
2261/1332 . Non-ladder-type, e.g. polyphenylenes, PPVs or polythiophenes
2261/1334 . Step-ladder-type, e.g. polyfluorenes or polycarbazoles
2261/1336 . Ladder-type, e.g. ladder-poly-p-phenylene
2261/134 . Rod and coil building blocks
2261/135 . Cross-linked structures
2261/136 . Comb-like structures
2261/14 . Side-groups
2261/141 . Side-chains having aliphatic units
2261/1412 . Saturated aliphatic units
2261/1414 . Unsaturated aliphatic units
2261/142 . Side-chains containing oxygen
2261/1422 . containing OH groups
2261/1424 . containing ether groups, including alkoxy
2261/1426 . containing carboxy groups (COOH) and/or \( C(=O)O \)-moieties
2261/1428 . containing acyl groups
2261/143 . Side-chains containing nitrogen
2261/1432 . containing amide groups
2261/1434 . containing triarylmethane moieties
2261/144 . Side-chains containing silicon
2261/145 . Side-chains containing sulfur
2261/1452 . containing sulfonyl or sulfonate-groups
2261/146 . Side-chains containing halogens

2261/147 . Side-chains with other heteroatoms in the side-chain
2261/148 . Side-chains having aromatic units
2261/149 . Side-chains having heteroaromatic units
2261/15 . conjugated side-chains
2261/152 . comprising metal complexes
2261/1522 . of alkali metals or alkaline-earth metals
2261/1523 . of rare earth metals, i.e. Sc, Y or lanthanides
2261/1524 . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
2261/1526 . of Os, Ir, Pt, Ru, Rh or Pd
2261/1528 . of Al
2261/1529 . of Fe, Co or Ni

2261/16 . End groups
2261/162 . comprising metal complexes
2261/1621 . of alkali metals or alkaline-earth metals
2261/1622 . of rare earth metals, i.e. Sc, Y or lanthanides
2261/1623 . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
2261/1624 . of Os, Ir, Pt, Ru, Rh or Pd
2261/1625 . of Al
2261/1626 . of Fe, Co or Ni
2261/164 . comprising organic end groups
2261/1642 . comprising reactive double bonds or triple bonds
2261/1644 . comprising other functional groups, e.g. OH groups, NH groups, COOH groups or boronic acid
2261/1646 . comprising aromatic or heteroaromatic end groups
2261/17 . Dendritic core
2261/18 . conjugated
2261/19 . partially conjugated
2261/20 . non-conjugated
2261/21 . Stereochemical aspects
2261/212 . Regioregularity
2261/214 . Chirality
2261/216 . Cis-trans isomerism
2261/22 . Molecular weight
2261/222 . monodisperse
2261/224 . polydisperse
2261/226 . Oligomers, i.e. up to 10 repeat units
2261/228 . Polymers, i.e. more than 10 repeat units
2261/30 . Monomer units or repeat units incorporating structural elements in the main chain
2261/31 . incorporating aromatic structural elements in the main chain
2261/312 . Non-condensed aromatic systems, e.g. benzene
2261/314 . Condensed aromatic systems, e.g. perylene, anthracene or pyrene
2261/3142 . fluorene-based, e.g. fluorene, indenofluorene, or spirofluorene
2261/316 . bridged by heteroatoms, e.g. N, P, Si or B
2261/3162 . Arylamines
2261/32 . incorporating heteroaromatic structural elements in the main chain
2261/322 . non-condensed
2261/3221 . containing one or more nitrogen atoms as the only heteroatom, e.g. pyrrole, pyridine or triazole
2261/3222 . containing one or more oxygen atoms as the only heteroatom, e.g. furan
2261/3223 . containing one or more sulfur atoms as the only heteroatom, e.g. thiophene
<table>
<thead>
<tr>
<th>2261/324</th>
<th>containing condensed or non-aromatic structural elements in the main chain</th>
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<tbody>
<tr>
<td>2261/332</td>
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<td>2261/3322</td>
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<td>2261/3323</td>
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<td>2261/3325</td>
<td>derived from other polycentric systems</td>
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<td>2261/3326</td>
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<td>2261/3327</td>
<td>alkene-based</td>
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<td>2261/3328</td>
<td>alkyne-based</td>
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<td>2261/3342</td>
<td>derived from cycloolefin containing heteroatoms</td>
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<td>2261/34</td>
<td>incorporating partially-aromatic structural</td>
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<td>containing only carbon atoms</td>
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<td>2261/3422</td>
<td>conjugated, e.g. PPV-type</td>
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<td>2261/36</td>
<td>Oligomers, i.e. comprising up to 10 repeat units</td>
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<td>containing only carbon atoms</td>
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<td>2261/364</td>
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<td>2261/37</td>
<td>Metal complexes</td>
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<td>2261/372</td>
<td>of rare earth metals, i.e. Sc, Y, lanthanides</td>
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<tr>
<td>2261/416</td>
<td>zinc-based, e.g. Rieke reactions</td>
</tr>
<tr>
<td>2261/417</td>
<td>magnesium-based, e.g. Grignard or McCullough</td>
</tr>
<tr>
<td>2261/418</td>
<td>Ring opening metathesis polymerisation [ROMP]</td>
</tr>
<tr>
<td>2261/419</td>
<td>Acyclic diene metathesis [ADMET]</td>
</tr>
<tr>
<td>2261/42</td>
<td>Non-organometallic coupling reactions, e.g.</td>
</tr>
<tr>
<td>2261/43</td>
<td>Chemical oxidative coupling reactions, e.g. with</td>
</tr>
<tr>
<td>2261/44</td>
<td>Electrochemical polymerisation, i.e. oxidative or</td>
</tr>
<tr>
<td>2261/45</td>
<td>Friedel-Crafts-type</td>
</tr>
<tr>
<td>2261/46</td>
<td>Diels-Alder reactions</td>
</tr>
<tr>
<td>2261/50</td>
<td>Physical properties</td>
</tr>
<tr>
<td>2261/51</td>
<td>Charge transport</td>
</tr>
<tr>
<td>2261/512</td>
<td>Hole transport</td>
</tr>
<tr>
<td>2261/514</td>
<td>Electron transport</td>
</tr>
<tr>
<td>2261/516</td>
<td>ion-conductive</td>
</tr>
<tr>
<td>2261/52</td>
<td>Luminescence</td>
</tr>
<tr>
<td>2261/522</td>
<td>fluorescent</td>
</tr>
<tr>
<td>2261/5222</td>
<td>electrophosphorescent</td>
</tr>
<tr>
<td>2261/524</td>
<td>phosphorescent</td>
</tr>
<tr>
<td>2261/5242</td>
<td>electrophosphorescent</td>
</tr>
<tr>
<td>2261/526</td>
<td>used as active layer in lasers</td>
</tr>
<tr>
<td>2261/53</td>
<td>liquid-crystalline</td>
</tr>
<tr>
<td>2261/54</td>
<td>electrochromatic</td>
</tr>
<tr>
<td>2261/55</td>
<td>thermoelectric</td>
</tr>
<tr>
<td>2261/56</td>
<td>thermochromatic</td>
</tr>
<tr>
<td>2261/57</td>
<td>photoelectronic, e.g. change of refractive index</td>
</tr>
<tr>
<td>2261/58</td>
<td>corrosion-inhibiting</td>
</tr>
<tr>
<td>2261/59</td>
<td>Stability</td>
</tr>
<tr>
<td>2261/592</td>
<td>against heat</td>
</tr>
<tr>
<td>2261/594</td>
<td>against light, i.e. electromagnetic radiation</td>
</tr>
<tr>
<td>2261/596</td>
<td>against oxidation</td>
</tr>
<tr>
<td>2261/598</td>
<td>Chemical stability</td>
</tr>
<tr>
<td>2261/60</td>
<td>Glass transition temperature</td>
</tr>
<tr>
<td>2261/61</td>
<td>Permeability</td>
</tr>
<tr>
<td>2261/612</td>
<td>for gases</td>
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<tr>
<td>2261/614</td>
<td>for liquids</td>
</tr>
<tr>
<td>2261/62</td>
<td>Mechanical aspects</td>
</tr>
<tr>
<td>2261/63</td>
<td>Viscosity</td>
</tr>
<tr>
<td>2261/64</td>
<td>Solubility</td>
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<tr>
<td>2261/65</td>
<td>Electrical insulator</td>
</tr>
<tr>
<td>2261/70</td>
<td>Post-treatment</td>
</tr>
<tr>
<td>2261/71</td>
<td>Purification</td>
</tr>
<tr>
<td>2261/712</td>
<td>Catalyst removal</td>
</tr>
<tr>
<td>2261/72</td>
<td>Derivatisation</td>
</tr>
<tr>
<td>2261/722</td>
<td>Sulfonation</td>
</tr>
<tr>
<td>2261/724</td>
<td>Hydrogenation</td>
</tr>
</tbody>
</table>
Silylation
Acylation
Depolymerisation
Further polymerisation of the obtained polymers, e.g. living polymerisation to obtain block-copolymers
Reaction of polymer building blocks for the formation of block-copolymers
Crosslinking
Grafting
Complexation
Doping
Functional group cleavage, e.g. removal of side-chains or protective groups
Applications
Photovoltaic applications
TFT applications
Applications in textiles, fabrics and yarns
Applications in sensors, e.g. biosensors
Use in organic luminescent diodes
Coating of particles
Coating of organic particles
Coating of inorganic particles
Compositions for creating interpenetrating networks
Compositions for creating shape memory
Compositions for creating anti-fogging
Agricultural use or equipment
Thermal insulation material (not used)
Evacuated open-celled polymer material
Filter material
Acoustic or vibration damping material
Tires
Containers
Inner coatings for containers
Soles
Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule
Characterized by the type of post-polymerisation functionalisation
End-capping
Epoxy-capping
Epoxy-capping used as a source of hydroxy groups
Characterized by the catalyst used in the post-polymerisation functionalisation step
Depolymerisation, e.g. to reform the monomer
De-esterification, e.g. of polythf-diesters
Photopolymerisation
Photodegradation
Cross-linking
Characterised by the initiator used in polymerisation
Polymeric initiators
Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule
Characterised by the type of post-polymerisation functionalisation
End-capping
Epoxy-capping
Epoxy-capping used as a source of hydroxy groups
Characterised by the catalyst used in the post-polymerisation functionalisation step
Depolymerisation, e.g. to reform the monomer
De-esterification, e.g. of polythf-diesters
Photopolymerisation
Photodegradation
Cross-linking
Characterised by the initiator used in polymerisation
Polymeric initiators
Sugars or saccharides used as initiators
Characterised by the polymer type
Branched
dendritic or similar
Oligomeric, e.g. cyclic oligomeric
Pre-polymer
Containing oxygen in addition to the ether group
Containing ketone groups, e.g. polarylethylketones, PEEK or PEK
Containing orthoester groups
Containing acetal or formal groups
Containing halogen
Containing fluorine, e.g. perfluropolyethers
Containing nitrogen, e.g. polyetheramines or Jeffamines(r)
Obtained by dehydration of polyhydric alcohols
Polyglycerols
Polyhydroxyethers, e.g. phenoxy resins
Ethylene oxide or propylene oxide copolymers, e.g. pluronics
Containing acetylenic group
Characterised by the nature of monomer used
Monomer containing functional groups not involved in polymerisation
Oligomeric monomers
Especially purified monomers