

CPC COOPERATIVE PATENT CLASSIFICATION

C08G MACROMOLECULAR COMPOUNDS OBTAINED OTHERWISE THAN BY REACTIONS ONLY INVOLVING UNSATURATED CARBON-TO-CARBON BONDS

NOTES

1. 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.
2. Within each main group of this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place.
3. In groups [C08G 61/00](#) - [C08G 79/00](#), in the absence of an indication to the contrary, macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified only according to the linkage present in excess.
4. This subclass covers also compositions based on monomers which from 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](#).

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these 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

2/00	Addition polymers of aldehydes or cyclic oligomers thereof or of ketones; Addition copolymers thereof with less than 50 molar percent of other substances	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)
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	6/00	Condensation polymers of aldehydes or ketones only
2/06	. Catalysts (Catalysts in general B01J)	6/02	. of aldehydes with ketones
2/08	. Polymerisation of formaldehyde	8/00	Condensation polymers of aldehydes or ketones with phenols only
2/10	. Polymerisation of cyclic oligomers of formaldehyde	8/02	. of ketones
2/12	. Polymerisation of acetaldehyde or cyclic oligomers thereof	8/04	. of aldehydes
2/14	. Polymerisation of single aldehydes not provided for in groups C08G 2/08 - C08G 2/12	8/06	. . of furfural
2/16	. Polymerisation of single ketones	8/08	. . of formaldehyde, e.g. of formaldehyde formed <u>in situ</u>
2/18	. Copolymerisation of aldehydes or ketones	8/10	. . . with phenol
2/20	. . with other aldehydes or ketones	8/12	. . . with monohydric phenols having only one hydrocarbon substituent ortho on para to the OH group, e.g. p-tert.-butyl phenol
2/22	. . with epoxy compounds		
2/24	. . with acetals	8/14	. . . with halogenated phenols
2/26	. . with compounds containing carbon-to-carbon unsaturation	8/16	. . . with amino- or nitrophenols
2/28	. Post-polymerisation treatments	8/18	. . . with phenols substituted by carboxylic or sulfonic acid groups
2/30	. Chemical modification by after-treatment		
2/32	. . by esterification	8/20	. . . with polyhydric phenols
2/34	. . by etherification	8/22	. . . . Resorcinol
2/36	. . by depolymerisation	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
2/38	. Block or graft polymers prepared by polymerisation of aldehydes or ketones on to macromolecular compounds	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	12/46	. Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds
8/34	. . by natural resins or resin acids, e.g. rosin		
8/36	. . by etherifying	14/00	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
8/38	. Block or graft polymers prepared by polycondensation of aldehydes or ketones onto macromolecular compounds	14/02	. of aldehydes
10/00	Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or halogenated aromatic hydrocarbons only	14/04	. . with phenols
10/02	. of aldehydes	14/06	. . . and monomers containing hydrogen attached to nitrogen
10/04	. . Chemically-modified polycondensates	14/08	. . . . Ureas; Thioureas
10/06	. Block or graft polymers prepared by polycondensation of aldehydes or ketones onto macromolecular compounds	14/10	. . . . Melamines
		14/12	. . . Chemically modified polycondensates
		14/14	. Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds
12/00	Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (aminophenols C08G 8/16)	16/00	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)
12/02	. of aldehydes	16/02	. of aldehydes
12/04	. . with acyclic or carbocyclic compounds	16/0206	. . {with inorganic compounds}
12/043	. . . {with at least two compounds covered by more than one of the groups C08G 12/06 - C08G 12/24 }	16/0212	. . {with acyclic or carbocyclic organic compounds}
12/046	. . . . {one being urea or thiourea}	16/0218	. . . {containing atoms other than carbon and hydrogen}
12/06	. . . Amines	16/0225	. . . . {containing oxygen}
12/08	. . . . aromatic	16/0231	. . . . {containing nitrogen}
12/10	. . . with acyclic compounds having the moiety $X=C(-N<)_2$ in which X is O, S or N-	16/0237	. . . . {containing sulfur}
12/12	. . . . Ureas; Thioureas	16/0243	. . . . {containing phosphorus}
12/14	. . . . Dicyandiamides; Dicyandiamidines; Guanidines; Biguanidines; Biuret; Semicarbazides	16/025	. . {with heterocyclic organic compounds}
12/16	. . . . . Dicyandiamides	16/0256	. . . {containing oxygen in the ring}
12/18	. . . with cyanamide	16/0262	. . . . {Furfuryl alcohol}
12/20	. . . with urethanes or thiourethanes	16/0268	. . . {containing nitrogen in the ring}
12/22	. . . with carboxylic acid amides (reaction of polyamides with aldehydes C08G 69/50)	16/0275	. . . {containing sulfur in the ring}
12/24	. . . with sulfonic acid amides	16/0281	. . . {containing phosphorus in the ring}
12/26	. . with heterocyclic compounds	16/0287	. . {with organometallic or metal-containing organic compounds}
12/263	. . . {with at least two compounds covered by more than one of the groups C08G 12/28 - C08G 12/32 }	16/0293	. . {with natural products, oils, bitumens, residues}
12/266	. . . . {one being melamine}	16/04	. . Chemically modified polycondensates
12/28	. . . with substituted diazines, diazoles or triazoles	16/06	. Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds
12/30	. . . with substituted triazines	18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
12/32	. . . . Melamines	18/003	. {with epoxy compounds having no active hydrogen (with epoxy resins containing active hydrogen C08G 18/58)}
12/34	. . . and acyclic or carbocyclic compounds	18/006	. {with aldehydes}
12/36	. . . . Ureas; Thioureas	18/02	. of isocyanates or isothiocyanates only
12/38	. . . . . and melamines	18/022	. . {the polymeric products containing isocyanurate groups}
12/40	. . Chemically modified polycondensates	18/025	. . {the polymeric products containing carbodiimide groups}
12/42	. . . by etherifying	18/027	. . {the polymeric products containing urethodione groups}
12/421	. . . . {of polycondensates based on acyclic or carbocyclic compounds}	18/04	. with vinyl compounds
12/422	. . . . . {based on urea or thiourea}	18/06	. with compounds having active hydrogen
12/424	. . . . {of polycondensates based on heterocyclic compounds}	18/08	. . Processes
12/425	. . . . . {based on triazines}		
12/427	. . . . . {Melamine}		
12/428	. . . . {of polycondensates based on heterocyclic and acyclic or carbocyclic compounds}		
12/44	. . . by esterifying		

18/0804 . . . {Manufacture of polymers containing ionic or ionogenic groups}

NOTE

Polymers prepared from unsaturated low-molecular-weight compounds having active hydrogen or isocyanate or isothiocyanate groups are classified in the respective [C08G 18/67](#) and [C08G 18/81](#) groups, according to the notes after [C08G 18/67](#) and [C08G 18/81](#)

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)}

NOTES

1. After the symbols [C08G 18/10](#) and [C08G 18/12](#) and separated by a "," sign, are indicated the reactive components of a second or following step by one of the symbols [C08G 18/2805](#), [C08G 18/30](#) - [C08G 18/38](#), [C08G 18/40](#) - [C08G 18/64](#) without subnotations, [C08G 18/65](#) - [C08G 18/66](#), [C08G 18/70](#) - [C08G 18/80](#)
2. After the symbols [C08G 18/10](#) and [C08G 18/12](#) and separated by a "," sign are indicated the oligomerisation of isocyanate- or isothiocyanate groups in the prepolymers or in the added reactive components involving reaction of at least a part of the isocyanate- or isothiocyanate groups with each other in the reaction mixture by

the symbols [C08G 18/02](#) or [C08G 18/09](#) respectively or by subnotations thereof

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 urethdione groups}

18/10 . . . Prepolymer processes involving reaction of isocyanates or isothiocyanates with compounds having active hydrogen in a first reaction step ([C08G 18/0838](#) takes precedence); masked polyisocyanates [C08G 18/80](#))

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 or 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}

18/2054 {having one nitrogen atom in the condensed ring system}

18/2063 {having two nitrogen atoms in the condensed ring system}

18/2072	. . . . . {having at least three nitrogen atoms in the condensed ring system}	18/2895	. . . . . {Compounds containing active methylene groups}
18/2081	. . . . . {containing at least two non-condensed heterocyclic rings}	18/30	. . . Low-molecular-weight compounds {(C08G 18/2805 takes precedence)}
18/209	. . . . . {having heteroatoms other than oxygen and nitrogen in the ring}	18/302	. . . . . {Water}
18/22	. . . . . containing metal compounds	18/305	. . . . . {creating amino end groups}
18/222	. . . . . {metal compounds not provided for in groups C08G 18/225 - C08G 18/26}	18/307	. . . . . {Atmospheric humidity}
18/225	. . . . . {of alkali or alkaline earth metals}	18/32	. . . . . Polyhydroxy compounds; Polyamines; Hydroxyamines
18/227	. . . . . {of antimony, bismuth or arsenic}	18/3203	. . . . . {Polyhydroxy compounds}
18/24	. . . . . of tin	18/3206	. . . . . {aliphatic}
18/242	. . . . . {organometallic compounds containing tin-carbon bonds}	18/3209	. . . . . {Aliphatic aldehyde condensates and hydrogenation products thereof}
18/244	. . . . . {tin salts of carboxylic acids}	18/3212	. . . . . {containing cycloaliphatic groups}
18/246	. . . . . {containing also tin-carbon bonds}	18/3215	. . . . . {containing aromatic groups or benzoquinone groups}
18/248	. . . . . {inorganic compounds of tin}	18/3218	. . . . . {containing cyclic groups having at least one oxygen atom in the ring}
18/26	. . . . . of lead	18/3221	. . . . . {hydroxylated esters of carboxylic acids other than higher fatty acids}
18/28	. . characterised by the compounds used containing active hydrogen	18/3225	. . . . . {Polyamines}
NOTE		18/3228	. . . . . {acyclic}
For the purpose of groups C08G 18/28 - C08G 18/69, the addition of water for the preparation of cellular materials is not taken into consideration {except in the case, wherein water is the only compound having active hydrogen C08G 18/302. When there is attributed a class in C08G 18/00 for a specific monomer or a catalyst, the addition of water as the sole blowing agent is indicated by indexing code C08G 2101/0083. Moreover specific aggregation forms of water, e.g. absorbed water and water of crystallisation are also classified in C08J 9/02}		18/3231	. . . . . {Hydrazine or derivatives thereof}
18/2805	. . . {Compounds having only one group containing active hydrogen (vinylpolymers having terminal groups containing active hydrogen C08G 18/62)}	18/3234	. . . . . {cycloaliphatic}
18/281	. . . . . {Monocarboxylic acid compounds}	18/3237	. . . . . {aromatic (C08G 18/3234 takes precedence)}
18/2815	. . . . . {Monohydroxy compounds}	18/324	. . . . . {containing only one aromatic ring}
18/282	. . . . . {Alkanols, cycloalkanols or arylalkanols including terpenealcohols}	18/3243	. . . . . {containing two or more aromatic rings}
18/2825	. . . . . {having at least 6 carbon atoms}	18/3246	. . . . . {heterocyclic, the heteroatom being oxygen or nitrogen in the form of an amino group}
18/283	. . . . . {Compounds containing ether groups, e.g. oxyalkylated monohydroxy compounds}	18/325	. . . . . {containing secondary or tertiary amino groups (C08G 18/3228, C08G 18/3234, C08G 18/3246 take precedence)}
18/2835	. . . . . {having less than 5 ether groups}	18/3253	. . . . . {being in latent form}
18/284	. . . . . {Compounds containing ester groups, e.g. oxyalkylated monocarboxylic acids}	18/3256	. . . . . {Reaction products of polyamines with aldehydes or ketones}
18/2845	. . . . . {Monohydroxy epoxy compounds}	18/3259	. . . . . {Reaction products of polyamines with inorganic or organic acids or derivatives thereof other than metallic salts}
18/285	. . . . . {Nitrogen containing compounds}	18/3262	. . . . . {with carboxylic acids or derivatives thereof}
18/2855	. . . . . {Lactams}	18/3265	. . . . . {with carbondioxide or sulfur dioxide}
18/286	. . . . . {Oximes}	18/3268	. . . . . {Salt complexes of polyamines}
18/2865	. . . . . {Compounds having only one primary or secondary amino group; Ammonia}	18/3271	. . . . . {Hydroxyamines}
18/287	. . . . . {Imine compounds}	18/3275	. . . . . {containing two hydroxy groups}
18/2875	. . . . . {Monohydroxy compounds containing tertiary amino groups}	18/3278	. . . . . {containing at least three hydroxy groups}
18/288	. . . . . {Compounds containing at least one heteroatom other than oxygen or nitrogen}	18/3281	. . . . . {containing three hydroxy groups}
18/2885	. . . . . {containing halogen atoms}	18/3284	. . . . . {containing four hydroxy groups}
18/289	. . . . . {containing silicon}	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	. . . . . {Polycarboxylic acids having at least three carboxylic acid groups}	18/3874	. . . . . {containing heterocyclic rings having at least one sulfur atom in the ring}
18/345	. . . . . {having three carboxylic acid groups}	18/3876	. . . . . {containing mercapto groups}
18/346	. . . . . {having four carboxylic acid groups}	18/3878	. . . . . {having phosphorus}
18/348	. . . . . {Hydroxycarboxylic acids}	18/388	. . . . . {having phosphorus bound to carbon and/or to hydrogen}
18/36	. . . . Hydroxylated esters of higher fatty acids	18/3882	. . . . . {having phosphorus bound to oxygen only}
18/38	. . . . having heteroatoms other than oxygen (C08G 18/32 takes precedence)	18/3885	. . . . . {Phosphate compounds}
18/3802	. . . . . {having halogens}	18/3887	. . . . . {Phosphite compounds}
18/3804	. . . . . {Polyhydroxy compounds}	18/3889	. . . . . {having nitrogen in addition to phosphorus}
18/3806	. . . . . {having chlorine and/or bromine atoms}	18/3891	. . . . . {having sulfur in addition to phosphorus}
18/3808	. . . . . {having chlorine atoms}	18/3893	. . . . . {containing silicon}
18/381	. . . . . {having bromine atoms}	18/3895	. . . . . {Inorganic compounds, e.g. aqueous alkalimetalsilicate solutions; Organic derivatives thereof containing no direct silicon-carbon bonds}
18/3812	. . . . . {having fluorine atoms}	18/3897	. . . . . {containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon}
18/3814	. . . . . {Polyamines}	18/40	. . . High-molecular-weight compounds {(C08G 18/2805 takes precedence)}
18/3817	. . . . . {Hydroxylated esters of higher fatty acids}	18/4009	. . . . {Two or more macromolecular compounds not provided for in one single group of groups C08G 18/42 - C08G 18/64}
18/3819	. . . . . {having nitrogen}	18/4018	. . . . . {Mixtures of compounds of group C08G 18/42 with compounds of group C08G 18/48}
18/3821	. . . . . {Carboxylic acids; Esters thereof with monohydroxyl compounds}	18/4027	. . . . . {Mixtures of compounds of group C08G 18/54 with other macromolecular compounds}
18/3823	. . . . . {containing -N-C=O groups}	18/4036	. . . . . {Mixtures of compounds of group C08G 18/56 with other macromolecular compounds}
18/3825	. . . . . {containing amide groups (C08G 18/3821 takes precedence)}	18/4045	. . . . . {Mixtures of compounds of group C08G 18/58 with other macromolecular compounds}
18/3827	. . . . . {Bicyclic amide acetals and derivatives thereof}	18/4054	. . . . . {Mixtures of compounds of group C08G 18/60 with other macromolecular compounds}
18/3829	. . . . . {containing ureum groups}	18/4063	. . . . . {Mixtures of compounds of group C08G 18/62 with other macromolecular compounds}
18/3831	. . . . . {containing urethane groups}	18/4072	. . . . . {Mixtures of compounds of group C08G 18/63 with other macromolecular compounds}
18/3834	. . . . . {containing hydrazide or semi-carbazide groups}	18/4081	. . . . . {Mixtures of compounds of group C08G 18/64 with other macromolecular compounds}
18/3836	. . . . . {containing azo groups}	18/409	. . . . {Dispersions of polymers of C08G in organic compounds having active hydrogen}
18/3838	. . . . . {containing cyano groups}	18/42	. . . . Polycondensates having carboxylic or carbonic ester groups in the main chain
18/384	. . . . . {containing nitro groups}	18/4202	. . . . . {Two or more polyesters of different physical or chemical nature (C08G 18/44 takes precedence)}
18/3842	. . . . . {containing heterocyclic rings having at least one nitrogen atom in the ring}	18/4205	. . . . . {containing cyclic groups}
18/3844	. . . . . {containing one nitrogen atom in the ring}	18/4208	. . . . . {containing aromatic groups}
18/3846	. . . . . {containing imide groups (C08G 18/3821 takes precedence)}	18/4211	. . . . . {derived from aromatic dicarboxylic acids and dialcohols}
18/3848	. . . . . {containing two nitrogen atoms in the ring}	18/4213	. . . . . {from terephthalic acid and dialcohols}
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 sulfonamide and/or sulfonylhydrazide 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}		

18/4216	. . . . .	{from mixtures or combinations of aromatic dicarboxylic acids and aliphatic dicarboxylic acids and dialcohols}	18/4288	. . . . .	{modified by higher fatty oils or their acids or by resin acids}
18/4219	. . . . .	{from aromatic dicarboxylic acids and dialcohols in combination with polycarboxylic acids and/or polyhydroxy compounds which are at least trifunctional}	18/4291	. . . . .	{prepared from polyester forming components containing monoepoxy compounds (C08G 18/4266 takes precedence)}
18/4222	. . . . .	{derived from aromatic polyhydroxy compounds and polycarboxylic acids}	18/4294	. . . . .	{prepared from polyester forming components containing polyepoxy compounds (C08G 18/4266 takes precedence)}
18/4225	. . . . .	{derived from residues obtained from the manufacture of dimethylterephthalate and from polyhydroxy compounds}	18/4297	. . . . .	{prepared from polyester forming components containing aliphatic aldehyde condensates or hydrogenation products thereof having at least two hydroxy groups}
18/4227	. . . . .	{derived from aromatic polycarboxylic acids containing at least two aromatic rings and polyhydroxy compounds}	18/44	. . . . .	Polycarbonates
18/423	. . . . .	{containing cycloaliphatic groups}	18/46	. . . . .	having heteroatoms other than oxygen
18/4233	. . . . .	{derived from polymerised higher fatty acids or alcohols}	18/4607	. . . . .	{having halogens}
18/4236	. . . . .	{containing only aliphatic groups}	18/4615	. . . . .	{containing nitrogen}
18/4238	. . . . .	{derived from dicarboxylic acids and dialcohols}	18/4623	. . . . .	{containing primary or secondary terminal aminogroups}
18/4241	. . . . .	{from dicarboxylic acids and dialcohols in combination with polycarboxylic acids and/or polyhydroxy compounds which are at least trifunctional}	18/463	. . . . .	{containing nitro groups}
18/4244	. . . . .	{containing oxygen in the form of ether groups}	18/4638	. . . . .	{containing heterocyclic rings having at least one nitrogen atom in the ring}
18/4247	. . . . .	{derived from polyols containing at least one ether group and polycarboxylic acids}	18/4646	. . . . .	{containing one nitrogen atom in the ring}
18/425	. . . . .	{the polyols containing one or two ether groups}	18/4653	. . . . .	{containing two nitrogen atoms in the ring}
18/4252	. . . . .	{derived from polyols containing polyether groups and polycarboxylic acids}	18/4661	. . . . .	{containing three nitrogen atoms in the ring}
18/4255	. . . . .	{derived from polyols containing oxyalkylated carbocyclic groups and polycarboxylic acids}	18/4669	. . . . .	{Addition products of unsaturated polyesters with amino compounds}
18/4258	. . . . .	{derived from polycarboxylic acids containing at least one ether group and polyols}	18/4676	. . . . .	{containing sulfur}
18/4261	. . . . .	{prepared by oxyalkylation of polyesterpolyols}	18/4684	. . . . .	{containing phosphorus}
18/4263	. . . . .	{containing carboxylic acid groups}	18/4692	. . . . .	{containing silicon}
18/4266	. . . . .	{prepared from hydroxycarboxylic acids and/or lactones}	18/48	. . . . .	Polyethers
18/4269	. . . . .	{Lactones}	18/4804	. . . . .	{Two or more polyethers of different physical or chemical nature}
18/4272	. . . . .	{Privalolactone}	18/4808	. . . . .	{Mixtures of two or more polyetherdiols}
18/4275	. . . . .	{Valcrolactone and/or substituted valcrolactone}	18/4812	. . . . .	{Mixtures of polyetherdiols with polyetherpolyols having at least three hydroxy groups}
18/4277	. . . . .	{Caprolactone and/or substituted caprolactone}	18/4816	. . . . .	{mixtures of two or more polyetherpolyols having at least three hydroxy groups}
18/428	. . . . .	{Lactides}	18/482	. . . . .	{Mixtures of polyethers containing at least one polyether containing nitrogen}
18/4283	. . . . .	{Hydroxycarboxylic acid or ester}	18/4825	. . . . .	{Polyethers containing two hydroxy groups (C08G 18/4833 - C08G 18/5096 take precedence)}
18/4286	. . . . .	{prepared from a combination of hydroxycarboxylic acids and/or lactones with polycarboxylic acids or ester forming derivatives thereof and polyhydroxy compounds}	18/4829	. . . . .	{Polyethers containing at least three hydroxy groups (C08G 18/4833 - C08G 18/5096 take precedence)}
			18/4833	. . . . .	{Polyethers containing oxyethylene units}
			18/4837	. . . . .	{and other oxyalkylene units}
			18/4841	. . . . .	{containing oxyethylene end groups}
			18/4845	. . . . .	{containing oxypropylene or higher oxyalkylene end groups}
			18/485	. . . . .	{containing mixed oxyethylene-oxypropylene or oxyethylene-higher oxyalkylene end groups}

18/4854	. . . . .	{Polyethers containing oxyalkylene groups having four carbon atoms in the alkylene group}	18/5084	. . . . .	{Phosphate compounds}
18/4858	. . . . .	{Polyethers containing oxyalkylene groups having more than four carbon atoms in the alkylene group}	18/5087	. . . . .	{Phosphite compounds}
18/4862	. . . . .	{containing at least a part of the ether groups in a side chain}	18/509	. . . . .	{having nitrogen in addition to phosphorus}
18/4866	. . . . .	{having a low unsaturation value}	18/5093	. . . . .	{having sulfur in addition to phosphorus}
18/487	. . . . .	{Polyethers containing cyclic groups}	18/5096	. . . . .	{containing silicon}
18/4875	. . . . .	{containing cycloaliphatic groups}	18/52	. . . . .	Polythioethers
18/4879	. . . . .	{containing aromatic groups}	18/54	. . . . .	Polycondensates of aldehydes
18/4883	. . . . .	{containing cyclic groups having at least one oxygen atom in the ring}	18/542	. . . . .	{with phenols}
18/4887	. . . . .	{containing carboxylic ester groups derived from carboxylic acids other than acids of higher fatty oils or other than resin acids}	18/544	. . . . .	{with nitrogen compounds}
18/4891	. . . . .	{modified with higher fatty oils or their acids or by resin acids}	18/546	. . . . .	{Oxyalkylated polycondensates of aldehydes}
18/4895	. . . . .	{prepared from polyepoxy compounds}	18/548	. . . . .	{Polycondensates of aldehydes with ketones}
18/50	. . . . .	having heteroatoms other than oxygen	18/56	. . . . .	Polyacetals
18/5003	. . . . .	{having halogens}	18/58	. . . . .	Epoxy resins {(C08G 18/42, C08G 18/48 take precedence; reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen C08G 18/6407, with at least equivalent amounts of amines C08G 18/6415; polymeric products of isocyanates or isothiocyanates with epoxy compounds having no active hydrogen C08G 18/003)}
18/5006	. . . . .	{having chlorine and/or bromine atoms}	18/581	. . . . .	{Reaction products of epoxy resins with less than equivalent amounts of compounds containing active hydrogen added before or during the reaction with the isocyanate component (with amines C08G 18/584)}
18/5009	. . . . .	{having chlorine atoms}	18/582	. . . . .	{having halogens}
18/5012	. . . . .	{having bromine atoms}	18/584	. . . . .	{having nitrogen}
18/5015	. . . . .	{having fluorine atoms}	18/585	. . . . .	{having sulfur}
18/5018	. . . . .	{having iodine atoms}	18/587	. . . . .	{having phosphorus}
18/5021	. . . . .	{having nitrogen}	18/588	. . . . .	{having silicon}
18/5024	. . . . .	{containing primary and/or secondary amino groups}	18/60	. . . . .	Polyamides or polyester-amides
18/5027	. . . . .	{directly linked to carbocyclic groups}	18/603	. . . . .	{Polyamides}
18/503	. . . . .	{being in latent form}	18/606	. . . . .	{Polyester-amides}
18/5033	. . . . .	{containing carbocyclic groups (C08G 18/5024 takes precedence)}	18/61	. . . . .	Polysiloxanes
18/5036	. . . . .	{containing -N-C=O groups}	18/615	. . . . .	{containing carboxylic acid groups}
18/5039	. . . . .	{containing amide groups}	18/62	. . . . .	Polymers of compounds having carbon-to-carbon double bonds
18/5042	. . . . .	{containing ureum groups}	18/6204	. . . . .	{Polymers of olefins (unsaturated polymers of conjugated dienes C08G 18/69)}
18/5045	. . . . .	{containing urethane groups}	18/6208	. . . . .	{Hydrogenated polymers of conjugated dienes}
18/5048	. . . . .	{Products of hydrolysis of polyether-urethane prepolymers containing isocyanate groups}	18/6212	. . . . .	{Polymers of alkenylalcohols; Acetals thereof; Oxyalkylation products thereof}
18/5051	. . . . .	{containing cyano groups}	18/6216	. . . . .	{Polymers of alpha-beta ethylenically unsaturated carboxylic acids or of derivatives thereof}
18/5054	. . . . .	{containing heterocyclic rings having at least one nitrogen atom in the ring}	18/622	. . . . .	{Polymers of esters of alpha-beta ethylenically unsaturated carboxylic acids}
18/5057	. . . . .	{containing one nitrogen atom in the ring}	18/6225	. . . . .	{Polymers of esters of acrylic or methacrylic acid}
18/506	. . . . .	{containing two nitrogen atoms in the ring}	18/6229	. . . . .	{Polymers of hydroxy groups containing esters of acrylic or methacrylic acid with aliphatic polyalcohols}
18/5063	. . . . .	{containing three nitrogen atoms in the ring}			
18/5066	. . . . .	{having halogens in addition to nitrogen}			
18/5069	. . . . .	{prepared from polyepoxy compounds}			
18/5072	. . . . .	{containing sulfur}			
18/5075	. . . . .	{having phosphorus}			
18/5078	. . . . .	{having phosphorus bound to carbon and/or to hydrogen}			
18/5081	. . . . .	{having phosphorus bound to oxygen only}			

- 18/6233 {the monomers or polymers being esterified with carboxylic acids or lactones}
- 18/6237 {Polymers of esters containing glycidyl groups of alpha-beta ethylenically unsaturated carboxylic acids; reaction products thereof}
- 18/6241 {Polymers of esters containing hydroxy groups of alpha-beta ethylenically unsaturated carboxylic acids with epoxy compounds other than alkylene oxides and hydroxyglycidyl compounds (esterification during or after polymerization [C08G 18/6258](#))}
- 18/6245 {Polymers having terminal groups containing active hydrogen}
- 18/625 {Polymers of alpha-beta ethylenically unsaturated carboxylic acids; hydrolyzed polymers of esters of these acids}
- 18/6254 {Polymers of alpha-beta ethylenically unsaturated carboxylic acids and of esters of these acids containing hydroxy groups}
- 18/6258 {the acid groups being esterified with polyhydroxy compounds or epoxy compounds during or after polymerization}
- 18/6262 {Polymers of nitriles derived from alpha-beta ethylenically unsaturated carboxylic acids}
- 18/6266 {Polymers of amides or imides from alpha-beta ethylenically unsaturated carboxylic acids}
- 18/627 {Polymers of hydroxylated esters of unsaturated higher fatty acids}
- 18/6275 {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)}
- 18/6279 {containing fluorine atoms}
- 18/6283 {Polymers of nitrogen containing compounds having carbon-to-carbon double bonds ([C08G 18/6262](#), [C08G 18/6266](#) take precedence)}
- 18/6287 {Polymers of sulfur containing compounds having carbon-to-carbon double bonds}
- 18/6291 {Polymers of phosphorus containing compounds having carbon-to-carbon double bonds}
- 18/6295 {Polymers of silicium containing compounds having carbon-to-carbon double bonds}
- 18/63 Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers
- 18/631 {onto polyesters and/or polycarbonates}
- 18/632 {onto polyethers}
- 18/633 {onto polymers of compounds having carbon-to-carbon double bonds}
- 18/635 {onto unsaturated polymers}
- 18/636 {characterised by the presence of a dispersion-stabiliser}
- 18/637 {characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates}
- 18/638 {characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles}
- 18/64 Macromolecular compounds not provided for by groups [C08G 18/42](#) - [C08G 18/63](#)
- 18/6407 {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)}
- 18/6415 {having nitrogen}
- 18/6423 {Polyalkylene polyamines; polyethylenimines; Derivatives thereof (polyamides or polyesteramides [C08G 18/60](#))}
- 18/643 {Reaction products of epoxy resins with at least equivalent amounts of amines}
- 18/6438 {Polyimides or polyesterimides}
- 18/6446 {Proteins and derivatives thereof}
- 18/6453 {having sulfur}
- 18/6461 {having phosphorus}
- 18/6469 {having silicon}
- 18/6476 {Bituminous materials, e.g. asphalt, coal tar, pitch; derivatives thereof}
- 18/6484 {Polysaccharides and derivatives thereof}
- 18/6492 {Lignin containing materials; Wood resins; Wood tars; Derivatives thereof}
- 18/65 Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen {([C08G 18/2805](#) takes precedence)}
- 18/6505 {the low-molecular compounds being compounds of group [C08G 18/32](#) or polyamines of [C08G 18/38](#)}
- 18/6511 {compounds of group [C08G 18/3203](#)}
- 18/6517 {having at least three hydroxy groups}
- 18/6523 {Compounds of group [C08G 18/3225](#) or [C08G 18/3271](#) or polyamines of [C08G 18/38](#)}
- 18/6529 {Compounds of group [C08G 18/3225](#) or polyamines of [C08G 18/38](#)}
- 18/6535 {Compounds of group [C08G 18/3271](#)}
- 18/6541 {the low-molecular compounds being compounds of group [C08G 18/34](#)}
- 18/6547 {the low-molecular compounds being compounds of group [C08G 18/36](#) or hydroxylated esters of higher fatty acids of [C08G 18/38](#)}
- 18/6552 {Compounds of group [C08G 18/63](#)}
- 18/6558 {with compounds of group [C08G 18/32](#) or polyamines of [C08G 18/38](#)}
- 18/6564 {with compounds of group [C08G 18/3203](#)}
- 18/657 {with compounds of [C08G 18/3225](#) or [C08G 18/3271](#) or polyamines of [C08G 18/38](#)}
- 18/6576 {Compounds of group [C08G 18/69](#)}

18/6582	. . . . .	{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }	18/6692	. . . . .	{with compounds of group C08G 18/34 }
18/6588	. . . . .	{with compounds of group C08G 18/3203 }	18/6696	. . . . .	{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }
18/6594	. . . . .	{with compounds of C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38 }	18/67	. . .	Unsaturated compounds having active hydrogen
18/66	. . . . .	Compounds of groups C08G 18/42 , C08G 18/48 , or C08G 18/52	NOTES		
18/6603	. . . . .	{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }	1. After the symbols C08G 18/67 and C08G 18/671 - C08G 18/679 and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups from unsaturated low-molecular-weight compounds having active hydrogen by one of the symbols C08G 18/0804 - C08G 18/0833		
18/6607	. . . . .	{with compounds of group C08G 18/3203 }	2. After the symbols C08G 18/671 - C08G 18/672 and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds by one of the symbols C08G 18/40 - C08G 18/64 without subnotations, C08G 18/65 - C08G 18/66 , C08G 18/6705 and C08G 18/6795 - C08G 18/69 . This note does not apply for the symbols C08G 18/6725 and C08G 18/673		
18/6611	. . . . .	{having at least three hydroxy groups}	18/6705	. . . . .	{Unsaturated polymers not provided for in the groups C08G 18/671 , C08G 18/6795 , C08G 18/68 or C08G 18/69 }
18/6614	. . . . .	{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38 }	18/671	. . . . .	{Unsaturated compounds having only one group containing active hydrogen (takes precedence on groups C08G 18/675 - C08G 18/69)}
18/6618	. . . . .	{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }	18/6715	. . . . .	{Unsaturated monofunctional alcohols or amines}
18/6622	. . . . .	{with compounds of group C08G 18/3271 }	18/672	. . . . .	{Esters of acrylic or alkyl acrylic acid having only one group containing active hydrogen}
18/6625	. . . . .	{with compounds of group C08G 18/34 }	18/6725	. . . . .	{containing ester groups other than acrylate or alkylacrylate ester groups}
18/6629	. . . . .	{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }	18/673	. . . . .	{containing two or more acrylate or alkylacrylate ester groups}
18/6633	. . . . .	{Compounds of group C08G 18/42 }	18/6735	. . . . .	{Unsaturated compounds containing the unsaturation at least partially in a non-aromatic carbocyclic ring}
18/6637	. . . . .	{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }	18/674	. . . . .	{Unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
18/664	. . . . .	{with compounds of group C08G 18/3203 }	18/6745	. . . . .	{Acetylenic compounds}
18/6644	. . . . .	{having at least three hydroxy groups}	18/675	. . . . .	{Low-molecular-weight compounds}
18/6648	. . . . .	{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38 }	18/6755	. . . . .	{Unsaturated carboxylic acids}
18/6651	. . . . .	{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }	18/676	. . . . .	{containing the unsaturation at least partially in a non-aromatic carbocyclic ring}
18/6655	. . . . .	{with compounds of group C08G 18/3271 }	18/6765	. . . . .	{containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
18/6659	. . . . .	{with compounds of group C08G 18/34 }	18/677	. . . . .	{containing heteroatoms other than oxygen and the nitrogen of primary or secondary amino groups}
18/6662	. . . . .	{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }			
18/6666	. . . . .	{Compounds of group C08G 18/48 or C08G 18/52 }			
18/667	. . . . .	{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }			
18/6674	. . . . .	{with compounds of group C08G 18/3203 }			
18/6677	. . . . .	{having at least three hydroxy groups}			
18/6681	. . . . .	{with compounds of group C08G 18/32 or C08G 18/3271 and/or polyamines of C08G 18/38 }			
18/6685	. . . . .	{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }			
18/6688	. . . . .	{with compounds of group C08G 18/3271 }			

18/6775	. . . . . {containing halogen}	18/73	. . . . . acyclic
18/678	. . . . . {containing nitrogen}	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}
18/6785	. . . . . {containing phosphorus}	18/74	. . . . . cyclic
18/679	. . . . . {Acetylenic compounds}	18/75	. . . . . cycloaliphatic
18/6795	. . . . . {Unsaturated polyethers}	18/751	. . . . . {containing only one cycloaliphatic ring}
18/68	. . . . . Unsaturated polyesters	18/752	. . . . . {containing at least one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group}
18/683	. . . . . {containing cyclic groups}	18/753	. . . . . {containing one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate group}
18/686	. . . . . {containing cycloaliphatic groups}	18/755	. . . . . {and at least one isocyanate or isothiocyanate group linked to a secondary carbon atom of the cycloaliphatic ring, e.g. isophorone diisocyanate}
18/69	. . . . . Polymers of conjugated dienes {(hydrogenated polymers of conjugated dienes C08G 18/6208)}	18/756	. . . . . {and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom of the cycloaliphatic ring}
18/692	. . . . . {containing carboxylic acid groups}	18/757	. . . . . {containing at least two isocyanate or isothiocyanate groups linked to the cycloaliphatic ring by means of an aliphatic group}
18/694	. . . . . {containing carboxylic ester groups}	18/758	. . . . . {containing two or more cycloaliphatic rings}
18/696	. . . . . {containing heteroatoms other than oxygen and other than the heteroatoms of copolymerised vinyl monomers}	18/76	. . . . . aromatic
18/698	. . . . . {Mixtures with compounds of group C08G 18/40 }	18/7607	. . . . . {Compounds of C08G 18/7614 and of C08G 18/7657 }
18/70	. . characterised by the isocyanates or isothiocyanates used	18/7614	. . . . . {containing only one aromatic ring}
18/701	. . . {Compounds forming isocyanates or isothiocyanates <u>in situ</u> (C08G 18/80 takes precedence)}	18/7621	. . . . . {being toluene diisocyanate including isomer mixtures}
18/702	. . . {Isocyanates or isothiocyanates containing compounds having carbon-to-carbon double bonds; Telomers thereof}	18/7628	. . . . . {containing at least one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group}
18/703	. . . {Isocyanates or isothiocyanates transformed in a latent form by physical means}	18/7635	. . . . . {containing one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group and at least one isocyanate or isothiocyanate group directly linked to the aromatic ring, e.g. isocyanatobenzylisocyanate}
18/705	. . . . {Dispersions of isocyanates or isothiocyanates in a liquid medium (C08G 18/702 takes precedence)}	18/7642	. . . . . {containing at least two isocyanate or isothiocyanate groups linked to the aromatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate groups, e.g. xylylene diisocyanate or homologues substituted on the aromatic ring}
18/706	. . . . . {the liquid medium being water}	18/765	. . . . . {alpha, alpha, alpha', alpha', -tetraalkylxylylene diisocyanate or homologues substituted on the aromatic ring}
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}		

18/7657	. . . . .	{containing two or more aromatic rings}	18/80	. . . . .	Masked polyisocyanates
18/7664	. . . . .	{containing alkylene polyphenyl groups}	18/8003	. . . . .	{masked with compounds having at least two groups containing active hydrogen}
18/7671	. . . . .	{containing only one alkylene bisphenyl group}	18/8006	. . . . .	{with compounds of C08G 18/32 }
18/7678	. . . . .	{containing condensed aromatic rings}	18/8009	. . . . .	{with compounds of C08G 18/3203 }
18/7685	. . . . .	{containing two or more non-condensed aromatic rings directly linked to each other}	18/8012	. . . . .	{with diols}
18/7692	. . . . .	{containing at least one isocyanate or isothiocyanate group linked to an aromatic ring by means of an aliphatic group}	18/8016	. . . . .	{Masked aliphatic or cycloaliphatic polyisocyanates}
18/77	. . . . .	having heteroatoms in addition to the isocyanate or isothiocyanate nitrogen and oxygen or sulfur	18/8019	. . . . .	{Masked aromatic polyisocyanates}
18/771	. . . . .	{oxygen}	18/8022	. . . . .	{with polyols having at least three hydroxy groups}
18/773	. . . . .	{halogens}	18/8025	. . . . .	{Masked aliphatic or cycloaliphatic polyisocyanates}
18/775	. . . . .	{sulfur}	18/8029	. . . . .	{Masked aromatic polyisocyanates}
18/776	. . . . .	{phosphorus}	18/8032	. . . . .	{Masked aliphatic or cycloaliphatic polyisocyanates not provided for in one single of the groups C08G 18/8016 and C08G 18/8025 }
18/778	. . . . .	{silicon}	18/8035	. . . . .	{Masked aromatic polyisocyanates not provided for in one single of the groups C08G 18/8019 and C08G 18/8029 }
18/78	. . . . .	Nitrogen {(C08G 18/775 , C08G 18/776 take precedence)}	18/8038	. . . . .	{with compounds of C08G 18/3225 }
18/7806	. . . . .	{containing -N-C=O groups}	18/8041	. . . . .	{with compounds of C08G 18/3271 }
18/7812	. . . . .	{containing amide groups}	18/8045	. . . . .	{with water}
18/7818	. . . . .	{containing ureum or ureum derivative groups}	18/8048	. . . . .	{with compounds of C08G 18/34 }
18/7825	. . . . .	{containing ureum groups}	18/8051	. . . . .	{with compounds of C08G 18/36 }
18/7831	. . . . .	{containing biuret groups}	18/8054	. . . . .	{with compounds of C08G 18/38 }
18/7837	. . . . .	{containing allophanate groups}	18/8058	. . . . .	{with compounds of C08G 18/3819 }
18/7843	. . . . .	{containing urethane groups}	18/8061	. . . . .	{masked with compounds having only one group containing active hydrogen}
18/785	. . . . .	{containing tertiary amino groups}	18/8064	. . . . .	{with monohydroxy compounds}
18/7856	. . . . .	{containing azo groups}	18/8067	. . . . .	{phenolic compounds}
18/7862	. . . . .	{containing cyano groups or aldimine or ketimine groups}	18/807	. . . . .	{with nitrogen containing compounds}
18/7868	. . . . .	{containing nitro groups}	18/8074	. . . . .	{Lactams}
18/7875	. . . . .	{containing heterocyclic rings having at least one nitrogen atom in the ring}	18/8077	. . . . .	{Oximes}
18/7881	. . . . .	{having one nitrogen atom in the ring}	18/808	. . . . .	{Monoamines}
18/7887	. . . . .	{having two nitrogen atoms in the ring}	18/8083	. . . . .	{with compounds containing at least one heteroatom other than oxygen or nitrogen}
18/7893	. . . . .	{having three nitrogen atoms in the ring}	18/8087	. . . . .	{containing halogen atoms}
18/79	. . . . .	characterised by the polyisocyanates used, these having groups formed by oligomerisation of isocyanates or isothiocyanates	18/809	. . . . .	{containing silicon}
18/791	. . . . .	{containing isocyanurate groups}	18/8093	. . . . .	{Compounds containing active methylene groups}
18/792	. . . . .	{formed by oligomerisation of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates}	18/8096	. . . . .	{with two or more compounds having only one group containing active hydrogen}
18/794	. . . . .	{formed by oligomerisation of aromatic isocyanates or isothiocyanates}	18/81	. . . . .	Unsaturated 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 uretone-imine groups}			
18/798	. . . . .	{containing urethdione groups}			

NOTES

1. After the symbols [C08G 18/81](#) - [C08G 18/8191](#) and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups by one of the symbols [C08G 18/0804](#) - [C08G 18/0833](#)
2. After the symbols [C08G 18/8158](#) - [C08G 18/8175](#) and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-

C08G

C08G 18/81
(continued)

- molecular-weight compounds by one of the symbols [C08G 18/40](#) - [C08G 18/64](#) without subnotations, [C08G 18/65](#) - [C08G 18/66](#), [C08G 18/6705](#) and [C08G 18/6795](#) - [C08G 18/69](#)
- 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}
- 18/8175 {with esters of acrylic or alkylacrylic acid having only one group containing active hydrogen}
- 18/8183 {with unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
- 18/8191 {with acetylenic compounds having active hydrogen}
- 18/82 . . Post-polymerisation treatment
- 18/83 . . Chemically modified polymers
- 18/831 . . . {by oxygen-containing compounds inclusive of carbonic acid halogenides, carboxylic acid halogenides and epoxy halides (by aldehydes [C08G 18/84](#), by peroxides [C08G 18/86](#))}
- 18/832 {by water acting as hydrolizing agent (reaction of isocyanates with water [C08G 18/302](#); reaction of isocyanate prepolymers with water [C08G 18/10](#) + [C08G 18/302](#))}
- 18/833 . . . {by nitrogen containing compounds (by azo compounds [C08G 18/85](#))}
- 18/834 . . . {by compounds containing a thiol group}
- 18/835 {Unsaturated polymers modified by compounds containing a thiol group}
- 18/836 . . . {by phosphorus containing compounds}
- 18/837 . . . {by silicon containing compounds}
- 18/838 . . . {by compounds containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon}
- 18/84 . . . by aldehydes
- 18/85 . . . by azo compounds
- 18/86 . . . by peroxides
- 18/87 . . . by sulfur
- 59/00** Polycondensates containing more than one epoxy group per molecule (low-molecular-weight polyepoxy compounds [C07](#)); Macromolecules obtained by polymerising compounds containing more than one epoxy group per molecule using curing agents or catalysts which react with the epoxy groups
- 59/02 . Polycondensates containing more than one epoxy group per molecule
- 59/022 . . {characterised by the preparation process or apparatus used}
- 59/025 . . {characterised by the purification methods used}
- 59/027 . . {obtained by epoxidation of unsaturated precursor, e.g. polymer or monomer}
- 59/04 . . of polyhydroxy compounds with epihalohydrins or precursors thereof
- 59/06 . . . of polyhydric phenols
- 59/063 {with epihalohydrins}
- 59/066 {with chain extension or advancing agents}
- 59/08 from phenol-aldehyde condensates
- 59/10 . . of polyamines with epihalohydrins or precursors thereof
- 59/12 . . of polycarboxylic acids with epihalohydrins or precursors thereof
- 59/14 . Polycondensates modified by chemical after-treatment
- 59/1405 . . {with inorganic compounds}
- 59/1411 . . . {containing sulfur}
- 59/1416 {Hydrogen sulfide}
- 59/1422 . . . {containing phosphorus}
- 59/1427 . . . {with water, e.g. hydrolysis}
- 59/1433 . . {with organic low-molecular-weight compounds}
- 59/1438 . . . {containing oxygen}
- 59/1444 {Monoalcohols}
- 59/145 {Compounds containing one epoxy group}
- 59/1455 {Monocarboxylic acids, anhydrides, halides, or low-molecular-weight esters thereof}
- 59/1461 {Unsaturated monoacids}
- 59/1466 {Acrylic or methacrylic acids}
- 59/1472 {Fatty acids}
- 59/1477 . . . {containing nitrogen}
- 59/1483 . . . {containing sulfur}
- 59/1488 . . . {containing phosphorus}
- 59/1494 . . {followed by a further chemical treatment thereof}
- 59/18 . Macromolecules 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}
- 59/182 . . {using pre-adducts of epoxy compounds with curing agents}
- 59/184 . . . {with amines}
- 59/186 . . . {with acids}
- 59/188 . . {using encapsulated compounds}
- 59/20 . . characterised by the epoxy compounds used
- NOTE**
- Preparation and curing of epoxy polycondensates, in which the epoxy polycondensate is not exclusively low-molecular-weight compound and in which the method of curing is not important, are classified only in groups [C08G 59/02](#) - [C08G 59/12](#).
- 59/22 . . . Di-epoxy compounds
- 59/223 {together with monoepoxy compounds}
- 59/226 {Mixtures of di-epoxy compounds}
- 59/24 carbocyclic
- 59/245 {aromatic}

59/26	. . . . heterocyclic	59/4269	. . . . . {Macromolecular compounds obtained by reactions other than those involving unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)}
59/28	. . . . containing acyclic nitrogen atoms	59/4276	. . . . . {Polyesters}
59/30	. . . . containing atoms other than carbon, hydrogen, oxygen and nitrogen	59/4284	. . . . {together with other curing agents}
59/302	. . . . . {containing sulfur}	59/4292	. . . . {together with monocarboxylic acids}
59/304	. . . . . {containing phosphorus}	59/44	. . . Amides
59/306	. . . . . {containing silicon}	59/442	. . . . {Thioamides}
59/308	. . . . . {containing halogen atoms}	59/444	. . . . {Sulfonamides}
59/32	. . . Epoxy compounds containing three or more epoxy groups	59/446	. . . . {Phosphoramides}
59/3209	. . . . {obtained by polymerisation of unsaturated mono-epoxy compounds}	59/448	. . . . {Lactames}
59/3218	. . . . {Carbocyclic compounds}	59/46	. . . . together with other curing agents
59/3227	. . . . {Compounds containing acyclic nitrogen atoms}	59/48	. . . . . with polycarboxylic acids, or with anhydrides, halides or low-molecular-weight esters thereof
59/3236	. . . . {Heterocyclic compounds}	59/50	. . . Amines
59/3245	. . . . . {containing only nitrogen as a heteroatom}	59/5006	. . . . {aliphatic}
59/3254	. . . . {containing atoms other than carbon, hydrogen, oxygen or nitrogen}	59/5013	. . . . . {containing more than seven carbon atoms, e.g. fatty amines}
59/3263	. . . . . {containing sulfur}	59/502	. . . . . {Polyalkylene polyamines}
59/3272	. . . . . {containing phosphorus}	59/5026	. . . . {cycloaliphatic}
59/3281	. . . . . {containing silicon}	59/5033	. . . . {aromatic}
59/329	. . . . . {containing halogen atoms}	59/504	. . . . {containing an atom other than nitrogen belonging to the amine group, carbon and hydrogen}
59/34	. . . . obtained by epoxydation of an unsaturated polymer	59/5046	. . . . {heterocyclic}
59/36	. . . . together with mono-epoxy compounds	59/5053	. . . . . {containing only nitrogen as a heteroatom}
59/38	. . . . together with di-epoxy compounds	59/506	. . . . . {having one nitrogen atom in the ring}
59/40	. . characterised by the curing agents used	59/5066	. . . . . {Aziridines or their derivatives}
59/4007	. . . {Curing agents not provided for by the groups C08G 59/42 - C08G 59/66 }	59/5073	. . . . . {having two nitrogen atoms in the ring}
59/4014	. . . . {Nitrogen containing compounds}	59/508	. . . . . {having three nitrogen atoms in the ring}
59/4021	. . . . . {Ureas; Thioureas; Guanidines; Dicyandiamides}	59/5086	. . . . . {Triazines; Melamines; Guanamines}
59/4028	. . . . . {Isocyanates; Thioisocyanates}	59/5093	. . . . {Complexes of amines}
59/4035	. . . . . {Hydrazines; Hydrazides}	59/52	. . . . Amino carboxylic acids
59/4042	. . . . . {Imines; Imides}	59/54	. . . . Amino amides>
59/405	. . . . . {Oximes}	59/56	. . . . together with other curing agents
59/4057	. . . . . {Carbamates}	59/58	. . . . . with polycarboxylic acids or with anhydrides, halides, or low-molecular-weight esters thereof
59/4064	. . . . {sulfur containing compounds (C08G 59/4021 , C08G 59/4028 take precedence)}	59/60	. . . . . with amides
59/4071	. . . . {phosphorus containing compounds}	59/62	. . . Alcohols or phenols
59/4078	. . . . {boron containing compounds}	59/621	. . . . {Phenols}
59/4085	. . . . {silicon containing compounds}	59/623	. . . . . {Aminophenols}
59/4092	. . . . {titanium containing compounds}	59/625	. . . . {Hydroxyacids}
59/42	. . . Polycarboxylic acids; Anhydrides, halides or low molecular weight esters thereof	59/626	. . . . . {Lactones}
59/4207	. . . . {aliphatic}	59/628	. . . . . {Phenolcarboxylic acids}
59/4215	. . . . {cycloaliphatic}	59/64	. . . . Amino alcohols
59/4223	. . . . {aromatic}	59/66	. . . Mercaptans
59/423	. . . . {containing an atom other than oxygen belonging to a functional groups to C08G 59/42 , carbon and hydrogen}	59/68	. . characterised by the catalysts used
59/4238	. . . . {heterocyclic}	59/681	. . . {Metal alcoholates, phenolates or carboxylates}
59/4246	. . . . {polymers with carboxylic terminal groups}	59/682	. . . . {Alcoholates}
59/4253	. . . . . {Rubbers}	59/683	. . . . {Phenolates}
59/4261	. . . . . {Macromolecular compounds obtained by reactions involving only unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)}	59/685	. . . . {Carboxylates}
		59/686	. . . {containing nitrogen}
		59/687	. . . {containing sulfur}
		59/688	. . . {containing phosphorus}
		59/70	. . . Chelates
		59/72	. . . 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 2261/964](#)

- 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}
- 61/123 . . . {derived from five-membered heterocyclic compounds}
- 61/124 {with a five-membered ring containing one nitrogen atom in the ring}
- 61/125 {with a five-membered ring containing one oxygen atom in the ring}
- 61/126 {with a five-membered ring containing one sulfur atom in the ring}
- 61/127 . . {derived from carbon dioxide, carbonyl halide, carboxylic acids or their derivatives}
- 61/128 . . {derived from other compounds}

63/00 Macromolecular compounds obtained by reactions forming a carboxylic ester link in the main chain of the macromolecule (polyester-amides [C08G 69/44](#); polyester-imides [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 the groups for the process employed (groups [C08G 63/78](#) - [C08G 63/87](#)). Compounds characterised both by the chemical constitution and by the preparation process are classified according to each of these aspects.

- 63/005 . {Polyesters prepared from ketenes}
- 63/02 . Polyesters 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 Polyesters 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 . . . Polyesters 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 Polyamides; Polynitriles
- 63/46 . . . Polyesters 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 Polyesters 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 . Polyesters containing both carboxylic ester groups and carbonate groups
- 63/66 . Polyesters containing oxygen in the form of ether 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 . Polyesters 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 halogens
- 63/6822 . . . {derived from hydroxy carboxylic acids}
- 63/6824 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/6826 {Dicarboxylic acids and dihydroxy compounds}
- 63/6828 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 63/685 . . containing nitrogen
- 63/6852 . . . {derived from hydroxy carboxylic acids}
- 63/6854 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/6856 {Dicarboxylic acids and dihydroxy compounds}
- 63/6858 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 63/688 . . containing sulfur
- 63/6882 . . . {derived from hydroxy carboxylic acids}
- 63/6884 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/6886 {Dicarboxylic acids and dihydroxy compounds}
- 63/6888 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 63/692 . . containing phosphorus
- 63/6922 . . . {derived from hydroxy carboxylic acids}
- 63/6924 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/6926 {Dicarboxylic acids and dihydroxy compounds}
- 63/6928 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 63/695 . . containing silicon
- 63/6952 . . . {derived from hydroxycarboxylic acids}
- 63/6954 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/6956 {Dicarboxylic acids and dihydroxy compounds}
- 63/6958 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 63/698 . . containing boron
- 63/6982 . . . {derived from hydroxy carboxylic acids}
- 63/6984 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/6986 {Dicarboxylic acids and dihydroxy compounds}
- 63/6988 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 63/78 . Preparation processes
- 63/785 . . {characterised by the apparatus used}
- 63/79 . . Interfacial processes, i.e. processes involving a reaction at the interface of two non-miscible liquids
- 63/80 . . Solid-state polycondensation
- 63/81 . . using solvents ([C08G 63/79](#) takes precedence)
- 63/82 . . characterised by the catalyst used
- 63/823 . . . {for the preparation of polylactones or polylactides}
- 63/826 . . . {Metals not provided for in groups [C08G 63/83](#) - [C08G 63/86](#) ([C08G 63/823](#) takes precedence)}
- 63/83 . . . Alkali metals, alkaline earth metals, beryllium, magnesium, copper, silver, gold, zinc, cadmium, mercury, manganese, or compounds thereof ([C08G 63/823](#) takes precedence)}
- 63/84 . . . Boron, aluminium, gallium, indium, thallium, rare-earth metals, or compounds thereof ([C08G 63/823](#) takes precedence)}
- 63/85 . . . Germanium, tin, lead, arsenic, antimony, bismuth, titanium, zirconium, hafnium, vanadium, niobium, tantalum, or compounds thereof ([C08G 63/823](#) takes precedence)}
- 63/86 Germanium, antimony, or compounds thereof
- 63/863 {Germanium or compounds thereof}
- 63/866 {Antimony or compounds thereof}
- 63/87 . . . Non-metals or inter-compounds thereof ([boron C08G 63/84](#))
- 63/88 . Post-polymerisation treatment
- 63/89 . . Recovery of the polymer
- 63/90 . . Purification; Drying
- 63/91 . Polymers modified by chemical after-treatment
- 63/912 . . {derived from hydroxycarboxylic acids}
- 63/914 . . {derived from polycarboxylic acids and polyhydroxy compounds}
- 63/916 . . . {Dicarboxylic acids and dihydroxy compounds}
- 63/918 . . . {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- 64/00** **Macromolecular compounds obtained by reactions forming a carbonic ester link in the main chain of the macromolecule** ([polycarbonate-amides C08G 69/44](#); [polycarbonate-imides C08G 73/16](#))

NOTE

Polymers containing both carboxylic ester groups and carbonate groups are always classified in

C08G

C08G 64/00

(continued)

group [C08G 63/64](#), even when the carbonate groups are present in excess.

- 64/02 . Aliphatic polycarbonates
- 64/0208 . . {saturated}
- 64/0216 . . . {containing a chain-terminating or -crosslinking agent}
- 64/0225 . . . {containing atoms other than carbon, hydrogen or oxygen}
- 64/0233 {containing halogens}
- 64/0241 {containing nitrogen}
- 64/025 {containing sulfur}
- 64/0258 {containing phosphorus}
- 64/0266 {containing silicon}
- 64/0275 {containing boron}
- 64/0283 {containing other elements}
- 64/0291 . . {unsaturated}
- 64/04 . Aromatic polycarbonates
- 64/045 . . {containing aliphatic unsaturation}
- 64/06 . . not containing aliphatic unsaturation
- 64/08 . . . containing atoms other than carbon, hydrogen or oxygen
- 64/081 {containing sulfur}
- 64/083 {containing phosphorus}
- 64/085 {containing silicon}
- 64/086 {containing boron}
- 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
- 64/183 . . {containing polyether sequences}
- 64/186 . . {containing polysiloxane sequences}
- 64/20 . General preparatory processes
- 64/205 . . {characterised by the apparatus used}
- 64/22 . . using carbonyl 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 . form 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 atom
- 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 Epihalohydrins
- 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 arylaliphatic 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 arylaliphatic 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

C08G

C08G 65/2642

(continued)

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} | 65/333 | | containing nitrogen |
| 65/2648 | | {Alkali metals or compounds thereof} | 65/33303 | | {containing amino group} |
| 65/2651 | | {Alkaline earth metals or compounds thereof} | 65/33306 | | {acyclic} |
| 65/2654 | | {Aluminium or boron; Compounds thereof} | 65/3331 | | {cyclic} |
| 65/2657 | | {Aluminosilicates; Clays; Zeolites} | 65/33313 | | {aromatic} |
| 65/266 | | {Metallic elements not covered by group C08G 65/2648 - C08G 65/2645 , or compounds thereof} | 65/33317 | | {heterocyclic} |
| 65/2663 | | {Metal cyanide catalysts, i.e. DMC's} | 65/3332 | | {containing carboxamide group} |
| 65/2666 | | {Hetero polyacids} | 65/33324 | | {acyclic} |
| 65/2669 | | {Non-metals or compounds thereof (boron C08G 65/2654)} | 65/33327 | | {cyclic} |
| 65/2672 | | {Nitrogen or compounds thereof} | 65/33331 | | {containing imide group} |
| 65/2675 | | {Phosphorus or compounds thereof} | 65/33334 | | {acyclic} |
| 65/2678 | | {Sulfur or compounds thereof} | 65/33337 | | {cyclic} |
| 65/2681 | | {Silicon or compounds thereof (silicates C08G 65/2657)} | 65/33341 | | {aromatic} |
| 65/2684 | | {Halogens or compounds thereof} | 65/33344 | | {containing carbamate group} |
| 65/2687 | | {Elements not covered by groups C08G 65/2672 - C08G 65/2684 or compounds thereof} | 65/33348 | | {containing isocyanate group} |
| 65/269 | | {Mixed catalyst systems, i.e. containing more than one reactive component or catalysts formed in-situ} | 65/33351 | | {acyclic} |
| 65/2693 | | {Supported catalysts} | 65/33355 | | {cyclic} |
| 65/2696 | . . . | {characterised by the process or apparatus used} | 65/33358 | | {aromatic} |
| 65/30 | . . | Post-polymerisation treatment, e.g. recovery, purification, drying | 65/33362 | | {heterocyclic} |
| 65/32 | . . | Polymers modified by chemical after-treatment | 65/33365 | | {containing cyano group} |
| 65/321 | . . . | with inorganic compounds | 65/33368 | | {acyclic} |
| 65/322 | | containing hydrogen | 65/33372 | | {acrylonitrile} |
| 65/323 | | containing halogen | 65/33375 | | {cyclic} |
| 65/3233 | | {Molecular halogen} | 65/33379 | | {containing nitro group} |
| 65/3236 | | {Fluorine} | 65/33382 | | {acyclic} |
| 65/324 | | containing oxygen | 65/33386 | | {cyclic} |
| 65/3245 | | {Carbondioxide} | 65/33389 | | {aromatic} |
| 65/325 | | containing nitrogen | 65/33393 | | {heterocyclic} |
| 65/3255 | | {Ammonia} | 65/33396 | | {having oxygen in addition to nitrogen} |
| 65/326 | | containing sulfur | 65/334 | | containing sulfur |
| 65/3265 | | {Sulfurdioxide} | 65/3342 | | {having sulfur bound to carbon and hydrogen} |
| 65/327 | | containing phosphorus | 65/3344 | | {containing oxygen in addition to sulfur} |
| 65/328 | | containing other elements | 65/3346 | | {having sulfur bound to carbon and oxygen} |
| 65/329 | . . . | with organic compounds | 65/3348 | | {containing nitrogen in addition to sulfur} |
| 65/331 | | containing oxygen {(cyclic ether compounds C08G 65/26)} | 65/335 | | containing phosphorus |
| 65/3311 | | {containing a hydroxy group} | 65/3351 | | {having phosphorus bound to carbon and hydrogen} |
| 65/3312 | | {acyclic} | 65/3353 | | {containing oxygen in addition to phosphorus} |
| 65/3314 | | {cyclic} | 65/3355 | | {having phosphorus bound to carbon and oxygen} |
| 65/3315 | | {aromatic} | 65/3356 | | {having nitrogen in addition to phosphorus} |
| 65/3317 | | {phenolic} | 65/3358 | | {having sulfur in addition to phosphorus} |
| 65/3318 | | {heterocyclic} | 65/336 | | containing silicon |
| 65/332 | | containing carboxyl groups, or halides, or esters thereof | 65/337 | | containing other elements (organic compounds containing halogens only as halides of a carboxyl group C08G 65/332) |
| 65/3322 | | {acyclic} | 65/338 | . . . | with inorganic and organic compounds |
| 65/3324 | | {cyclic} | 65/34 | . . | from hydroxy compounds or their metallic derivatives {(C08G 65/26 takes precedence)} |
| 65/3326 | | {aromatic} | 65/36 | . . | Furfuryl alcohol |
| 65/3328 | | {heterocyclic} | 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 {Other compound (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 fluorine other than as leaving group (X)}
- 65/4031 {(I) or (II) containing nitrogen}
- 65/4037 {in ring structure, e.g. pyridine group}
- 65/4043 {(I) or (II) containing oxygen other than as phenol or carbonyl group}
- 65/405 {in ring structure, e.g. phenolphthalein}
- 65/4056 {(I) or (II) containing sulfur (as the sulfone group [C08G 75/23](#))}
- 65/4062 {in ring structure}
- 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
- 65/46 . . Post-polymerisation treatment, e.g. recovery, purification, drying
- 65/48 . . Polymers modified by chemical after-treatment
- 65/485 . . . {Polyphenylene oxides}
- 67/00** **Macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing oxygen or oxygen and carbon, not provided for in groups [C08G 2/00](#) - [C08G 65/00](#)**
- 67/02 . Copolymers of carbon monoxide and aliphatic unsaturated compounds
- 67/04 . Polyanhydrides
- 69/00** **Macromolecular compounds obtained by reactions forming a carboxylic amide link in the main chain of the macromolecule (products obtained from isocyanates or isothiocyanates [C08G 18/00](#); polyamide-imides [C08G 73/14](#))**
- 69/02 . Polyamides derived from amino-carboxylic acids or from polyamines and polycarboxylic acids
- 69/04 . . Preparatory processes
- 69/06 . . . Solid state polycondensation
- 69/08 . . derived from amino-carboxylic acids
- 69/10 . . . Alpha-amino-carboxylic acids {[\(polysuccinimides C08G 73/1092\)](#)}
- 69/12 . . . with both amino and carboxylic groups aromatically bound
- 69/14 . . . Lactams
- 69/16 Preparatory processes
- 69/18 Anionic polymerisation
- 69/20 characterised by the catalysts used
- 69/22 Beta-lactams
- 69/24 Pyrrolidones or piperidones
- 69/26 . . derived from polyamines and polycarboxylic acids
- 69/265 . . . {from at least two different diamines or at least two different dicarboxylic acids}
- 69/28 . . . Preparatory processes
- 69/30 Solid state polycondensation
- 69/32 . . . from aromatic diamines and aromatic dicarboxylic acids with both amino and carboxylic groups aromatically bound
- 69/34 . . . using polymerised unsaturated fatty acids
- 69/36 . . derived from amino acids, polyamines and polycarboxylic acids
- 69/38 . Polyamides prepared from aldehydes and polynitriles
- 69/40 . Polyamides containing oxygen in the form of ether groups ([C08G 69/12](#), [C08G 69/32](#) take precedence)
- 69/42 . Polyamides containing atoms other than carbon, hydrogen, oxygen, and nitrogen ([C08G 69/12](#), [C08G 69/32](#) take precedence)
- 69/44 . Polyester-amides
- 69/46 . Post-polymerisation treatment
- 69/48 . Polymers modified by chemical after-treatment
- 69/50 . . with aldehydes
- 71/00** **Macromolecular compounds obtained by reactions forming a ureide or urethane link, otherwise, than from isocyanate radicals in the main chain of the macromolecule**
- 71/02 . Polyureas
- 71/04 . Polyurethanes
- 73/00** **Macromolecular compounds obtained by reactions forming a linkage containing nitrogen with or without oxygen 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}
- 73/022 {from polyamines and epihalohydrins}
- 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 epihalohydrins}
- 73/0293 . . . {Quaternisation of polyamidoamines}
- 73/06 . Polycondensates 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

C08G

C08G 73/06
(continued)

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 ([polysuccinimides 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. polyquinolines}
- 73/0694 . . . {with only two nitrogen atoms in the ring, e.g. polyquinoxalines}
- 73/08 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
- 73/10 . . Polyimides; 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 {polymerised 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 . . . {Copolyimides 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 . . . {Polyisoimides}
- 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 . . Pyrroles
- 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 . Polyarylenethioethers

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 75/0295](#).
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 75/04](#) 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 groups [C08G 75/0277](#), [C08G 75/0281](#), [C08G 75/04](#), and [C08G 75/045](#).

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

- 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 thiiranes
- 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
- 77/395 containing phosphorus
- 77/398 containing boron or metal atoms
- 77/42 . Block-or graft-polymers containing polysiloxane sequences (polymerising aliphatic unsaturated monomers on to a polysiloxane C08F 283/12)
- 77/44 . . containing only polysiloxane sequences
- 77/442 . . containing vinyl polymer sequences
- 77/445 . . containing polyester sequences
- 77/448 . . . containing polycarbonate sequences
- 77/452 . . containing nitrogen-containing sequences
- 77/455 . . . containing polyamide, polyesteramide or polyimide sequences
- 77/458 . . containing polyurethane sequences
- 77/46 . . containing polyether sequences
- 77/48 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms
(C08G 77/42 takes precedence)
- 77/485 . . {containing less than 25 silicon atoms}
- 77/50 . . by carbon linkages {(C08G 77/485 takes precedence)}
- 77/52 . . . containing aromatic rings
- 77/54 . . Nitrogen-containing linkages {(C08G 77/485 takes precedence)}
- 77/56 . . Boron-containing linkages {(C08G 77/485 takes precedence)}
- 77/58 . . Metal-containing linkages {(C08G 77/485 takes precedence)}
- 77/60 . in which all the silicon atoms are connected by linkages other than oxygen atoms
- 77/62 . . Nitrogen atoms
- 77/70 . {Siloxanes defined by use of the MDTQ nomenclature}
- 77/80 . {Siloxanes having aromatic substituents, e.g. phenyl side groups}

79/00 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
- 79/025 . . Polyphosphazenes
- 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 aluminium
- 79/12 . a linkage containing tin
- 79/14 . a linkage containing two or more elements other than carbon, oxygen, nitrogen, sulfur and silicon

81/00 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; {polyester-amides C08G 69/44; polyester-imides C08G 73/16; polyamides-imides C08G 73/14; block- or graft polymers containing polysiloxane sequences C08G 77/42})

- 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}
- 81/022 . . . {containing sequences of polymers of conjugated dienes and of polymers of alkenyl aromatic compounds}
- 81/024 . . {Block or graft polymers containing sequences of polymers of C08C or C08F and of polymers of C08G}
- 81/025 . . . {containing polyether sequences}
- 81/027 . . . {containing polyester or polycarbonate sequences}
- 81/028 . . . {containing polyamide sequences}

83/00 Macromolecular compounds not provided for in groups C08G 2/00 - C08G 81/00

- 83/001 . {Macromolecular compounds containing organic and inorganic sequences, e.g. organic polymers grafted onto silica}
- 83/002 . {Dendritic macromolecules}
- 83/003 . . {Dendrimers}
- 83/004 . . . {After treatment of dendrimers}
- 83/005 . . {Hyperbranched macromolecules}
- 83/006 . . . {After treatment of hyperbranched macromolecules}
- 83/007 . {Polyrotaxanes; Polycatenanes}
- 83/008 . {Supramolecular polymers}

85/00 General processes for preparing compounds provided for in this subclass

- 85/002 . {Post-polymerisation treatment}
- 85/004 . {Modification of polymers by chemical after-treatment}
- 85/006 . {Scale prevention in polymerisation reactors}
- 85/008 . {Cleaning reaction vessels using chemicals (mechanical methods B08B 9/08)}

2101/00 Foams

- 2101/0008 . {flexible}

2101/0016	. {semi-rigid}	2261/133	. . . Rod-like building block
2101/0025	. {rigid}	2261/1332	. . . . Non-ladder-type, e.g. polyphenylenes, PPVs or polythiophenes
2101/0033	. {having integral skins}	2261/1334	. . . . Step-ladder-type, e.g. polyfluorenes or polycarbazoles
2101/0041	. {having specified density}	2261/1336	. . . . Ladder-type, e.g. ladder-poly-p-phenylenes
2101/005	. . {< 50 kg/m}	2261/134	. . . Rod and coil building blocks
2101/0058	. . {> 50 and < 150 kg/m}	2261/135	. . . Cross-linked structures
2101/0066	. . {> 150 Kg/m including micro-cellular foams}	2261/136	. . . Comb-like structures
2101/0075	. {prepared with an isocyanate index of 60 or lower}	2261/14	. . Side-groups
2101/0083	. {prepared using water as the sole blowing agent}	2261/141	. . . Side-chains having aliphatic units
2101/0091	. {Aerogels; Xerogels}	2261/1412	. . . . Saturated aliphatic units
2105/00	Oligomerisation	2261/1414	. . . . Unsaturated aliphatic units
2105/02	. to isocyanurate groups	2261/142	. . . Side-chains containing oxygen
2105/06	. to carbodiimide or uretone-imine groups	2261/1422	. . . . containing OH groups
2120/00	Compositions for reaction injection moulding processes	2261/1424	. . . . containing ether groups, including alkoxy
2125/00	Compositions for processes using internal mould release agents	2261/1426	. . . . containing carboxy groups (COOH) and/or -C(=O)O-moieties
2130/00	Compositions of compatibilising agents used in mixtures of high-molecular-weight compounds having active hydrogen with other compounds having active hydrogen	2261/1428	. . . . containing acyl groups
2140/00	Compositions for moulding powders	2261/143	. . . Side-chains containing nitrogen
2150/00	Compositions for coatings (not used)	2261/1432	. . . . containing amide groups
2150/20	. Compositions for powder coatings	2261/1434	. . . . containing triarylamine moieties
2150/50	. Compositions for coatings applied by spraying at least two streams of reaction components	2261/144	. . . Side-chains containing silicon
2150/60	. Compositions for foaming; Foamed or intumescent coatings	2261/145	. . . Side-chains containing sulfur
2150/90	. Compositions for anticorrosive coatings	2261/1452	. . . . containing sulfonyl or sulfonate-groups
2170/00	Compositions for adhesives (not used)	2261/146	. . . Side-chains containing halogens
2170/20	. Compositions for hot melt adhesives	2261/147	. . . Side-chains with other heteroatoms in the side-chain
2170/40	. Compositions for pressure-sensitive adhesives	2261/148	. . . Side-chains having aromatic units
2170/60	. Compositions for foaming; Foamed or intumescent adhesives	2261/149	. . . Side-chains having heteroaromatic units
2170/80	. Compositions for aqueous adhesives	2261/15	. . . conjugated side-chains
2170/90	. Compositions for adhesives used in footwear	2261/152	. . . comprising metal complexes
2190/00	Compositions for sealing or packing joints	2261/1522	. . . . of alkali metals or alkaline-earth metals
2210/00	Compositions for preparing hydrogels	2261/1523	. . . . of rare earth metals, i.e. Sc, Y or lanthanides
2220/00	Compositions for preparing gels other than hydrogels, aerogels and xerogels	2261/1524	. . . . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
2230/00	Compositions for preparing biodegradable polymers	2261/1526	. . . . of Os, Ir, Pt, Ru, Rh or Pd
2250/00	Compositions for preparing crystalline polymers	2261/1528	. . . . of Al
2261/00	Macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain of the macromolecule	2261/1529	. . . . of Fe, Co or Ni
2261/10	. Definition of the polymer structure	2261/16	. . End groups
2261/11	. . Homopolymers	2261/162	. . . comprising metal complexes
2261/12	. . Copolymers	2261/1621	. . . . of alkali metals or alkaline-earth metals
2261/122	. . . statistical	2261/1622	. . . . of rare earth metals, i.e. Sc, Y or lanthanides
2261/124	. . . alternating	2261/1623	. . . . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
2261/126	. . . block	2261/1624	. . . . of Os, Ir, Pt, Ru, Rh or Pd
2261/128	. . . graft	2261/1625	. . . . of Al
2261/13	. . Morphological aspects	2261/1626	. . . . of Fe, Co or Ni
2261/131	. . . dendritic	2261/164	. . . comprising organic end groups
2261/132	. . . branched or hyperbranched	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	2261/3324	. . . . derived from norbornene
2261/222	. . . monodisperse	2261/3325	. . . . derived from other polycyclic systems
2261/224	. . . polydisperse	2261/3326	. . . . alkane-based
2261/226	. . . Oligomers, i.e. up to 10 repeat units	2261/3327	. . . . alkene-based
2261/228	. . . Polymers, i.e. more than 10 repeat units	2261/3328	. . . . alkyne-based
2261/30	. Monomer units or repeat units incorporating structural elements in the main chain	2261/334	. . . containing heteroatoms
2261/31	. . incorporating aromatic structural elements in the main chain	2261/3342	. . . . derived from cycloolefins containing heteroatoms
2261/312	. . . Non-condensed aromatic systems, e.g. benzene	2261/34	. . incorporating partially-aromatic structural elements in the main chain
2261/314	. . . Condensed aromatic systems, e.g. perylene, anthracene or pyrene	2261/342	. . . containing only carbon atoms
2261/3142	. . . . fluorene-based, e.g. fluorene, indenofluorene, or spirobifluorene	2261/3422	. . . . conjugated, e.g. PPV-type
2261/316	. . . bridged by heteroatoms, e.g. N, P, Si or B	2261/3424	. . . . non-conjugated, e.g. paracyclophanes or xylenes
2261/3162	. . . . Arylamines	2261/344	. . . containing heteroatoms
2261/32	. . incorporating heteroaromatic structural elements in the main chain	2261/3442	. . . . Polyetherketones
2261/322	. . . non-condensed	2261/3444	. . . . Polyethersulfones
2261/3221	. . . . containing one or more nitrogen atoms as the only heteroatom, e.g. pyrrole, pyridine or triazole	2261/35	. . Macromonomers, i.e. comprising more than 10 repeat units
2261/3222	. . . . containing one or more oxygen atoms as the only heteroatom, e.g. furan	2261/352	. . . containing only carbon atoms
2261/3223	. . . . containing one or more sulfur atoms as the only heteroatom, e.g. thiophene	2261/354	. . . containing hetero atoms
2261/3224	. . . . containing one or more Si atoms as the only heteroatom	2261/36	. . Oligomers, i.e. comprising up to 10 repeat units
2261/3225	. . . . containing one or more Se atoms as the only heteroatom	2261/362	. . . containing only carbon atoms
2261/3226	. . . . containing one or more Te atoms as the only heteroatom	2261/364	. . . containing hetero atoms
2261/3227	. . . . containing only one kind of heteroatoms other than N, O, S, Si, Se, Te	2261/37	. . Metal complexes
2261/3228	. . . . containing nitrogen and oxygen as heteroatoms	2261/371	. . . of alkali metals and alkaline-earth metals
2261/3229	. . . . containing nitrogen and sulfur as heteroatoms	2261/372	. . . of rare earth metals, i.e. Sc, Y, lanthanides
2261/323	. . . . containing combinations of different heteroatoms other than nitrogen and oxygen or nitrogen and sulfur	2261/373	. . . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta, W
2261/324	. . . condensed	2261/374	. . . of Os, Ir, Pt, Ru, Rh, Pd
2261/3241	. . . . containing one or more nitrogen atoms as the only heteroatom, e.g. carbazole	2261/375	. . . of Al
2261/3242	. . . . containing one or more oxygen atoms as the only heteroatom, e.g. benzofuran	2261/376	. . . of Fe, Co, Ni
2261/3243	. . . . containing one or more sulfur atoms as the only heteroatom, e.g. benzothiophene	2261/40	. Polymerisation processes
2261/3244	. . . . containing only one kind of heteroatoms other than N, O, S	2261/41	. . Organometallic coupling reactions
2261/3245	. . . . containing nitrogen and oxygen as heteroatoms	2261/411	. . . Suzuki reactions
2261/3246	. . . . containing nitrogen and sulfur as heteroatoms	2261/412	. . . Yamamoto reactions
2261/3247	. . . . containing combinations of different heteroatoms other than nitrogen and oxygen or nitrogen and sulfur	2261/413	. . . Heck reactions
2261/33	. . incorporating non-aromatic structural elements in the main chain	2261/414	. . . Stille reactions
2261/332	. . . containing only carbon atoms	2261/415	. . . Sonogashira / Hagihara reactions
2261/3321	. . . . derived from cyclopentene	2261/416	. . . zinc-based, e.g. Rieke reactions
2261/3322	. . . . derived from cyclooctene	2261/417	. . . magnesium-based, e.g. Grignard or McCullough reactions
2261/3323	. . . . derived from other monocyclic systems	2261/418	. . . Ring opening metathesis polymerisation [ROMP]
		2261/419	. . . Acyclic diene metathesis [ADMET]
		2261/42	. . Non-organometallic coupling reactions, e.g. Gilch-type or Wessling-Zimmermann type
		2261/43	. . Chemical oxidative coupling reactions, e.g. with FeCl ₃
		2261/44	. . Electrochemical polymerisation, i.e. oxidative or reductive coupling
		2261/45	. . Friedel-Crafts-type
		2261/46	. . Diels-Alder reactions
		2261/50	. Physical properties
		2261/51	. . Charge transport
		2261/512	. . . Hole transport
		2261/514	. . . Electron transport
		2261/516	. . . ion-conductive
		2261/52	. . Luminescence
		2261/522	. . . fluorescent
		2261/5222	. . . . electrofluorescent
		2261/524	. . . phosphorescent
		2261/5242	. . . . electrophosphorescent

2261/526	. . . used as active layer in lasers	2340/00	Filter material
2261/53	. . liquid-crystalline	2350/00	Acoustic or vibration damping material
2261/54	. . electrochromatic	2380/00	Tyres
2261/55	. . thermoelectric	2390/00	Containers
2261/56	. . thermochromic	2390/40	. Inner coatings for containers
2261/57	. . photorefractive, e.g. change of refractive index	2410/00	Soles
2261/58	. . corrosion-inhibiting	2650/00	Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule
2261/59	. . Stability	2650/02	. characterized by the type of post-polymerisation functionalisation
2261/592	. . . against heat	2650/04	. . End-capping
2261/594	. . . against light, i.e. electromagnetic radiation	2650/06	. . Epoxy-capping
2261/596	. . . against oxidation	2650/08	. . . Epoxy- capping used as a source of hydroxy groups
2261/598	. . . Chemical stability	2650/10	. . characterized by the catalyst used in the post-polymerisation functionalisation step
2261/60	. . Glass transition temperature	2650/12	. . Depolymerisation, e.g. to reform the monomer
2261/61	. . Permeability	2650/14	. . De-esterification, e.g. of polythf-diester
2261/612	. . . for gases	2650/16	. . Photopolymerisation
2261/614	. . . for liquids	2650/18	. . Photodegradation
2261/62	. . Mechanical aspects	2650/20	. . Cross-linking
2261/63	. . Viscosity	2650/22	. characterised by the initiator used in polymerisation
2261/64	. . Solubility	2650/24	. . Polymeric initiators
2261/65	. . Electrical insulator	2650/26	. . Sugars or saccharides used as initiators
2261/70	. Post-treatment	2650/28	. characterised by the polymer type
2261/71	. . Purification	2650/30	. . branched
2261/712	. . . Catalyst removal	2650/32	. . . dendritic or similar
2261/72	. . Derivatisation	2650/34	. . Oligomeric, e.g. cyclic oligomeric
2261/722	. . . Sulfonation	2650/36	. . Pre-polymer
2261/724	. . . Hydrogenation	2650/38	. . containing oxygen in addition to the ether group
2261/726	. . . Silylation	2650/40	. . . containing ketone groups, e.g. polyarylethylketones, PEEK or PEK
2261/728	. . . Acylation	2650/42	. . . containing orthoester groups
2261/73	. . Depolymerisation	2650/44	. . . containing acetal or formal groups
2261/74	. . Further polymerisation of the obtained polymers, e.g. living polymerisation to obtain block-copolymers	2650/46	. . containing halogen
2261/75	. . Reaction of polymer building blocks for the formation of block-copolymers	2650/48	. . . containing fluorine, e.g. perfluoropolyethers
2261/76	. . crosslinking	2650/50	. . containing nitrogen, e.g. polyetheramines or Jeffamines(r)
2261/77	. . grafting	2650/52	. . obtained by dehydration of polyhydric alcohols
2261/78	. . Complexation	2650/54	. . . Polyglycerols
2261/79	. . doping	2650/56	. . Polyhydroxyethers, e.g. phenoxy resins
2261/792	. . . with low-molecular weight dopants	2650/58	. . Ethylene oxide or propylene oxide copolymers, e.g. pluronics
2261/794	. . . with polymeric dopants	2650/60	. . containing acetylenic group
2261/80	. . Functional group cleavage, e.g. removal of side-chains or protective groups	2650/62	. characterised by the nature of monomer used
2261/90	. Applications	2650/64	. . Monomer containing functional groups not involved in polymerisation
2261/91	. . Photovoltaic applications	2650/66	. . Oligomeric monomers
2261/92	. . TFT applications	2650/68	. . Especially purified monomers
2261/93	. . Applications in textiles, fabrics and yarns		
2261/94	. . Applications in sensors, e.g. biosensors		
2261/95	. . Use in organic luminescent diodes		
2261/96	. . coating of particles		
2261/962	. . . coating of organic particles		
2261/964	. . . coating of inorganic particles		
2270/00	Compositions for creating interpenetrating networks		
2280/00	Compositions for creating shape memory		
2290/00	Compositions for creating anti-fogging		
2310/00	Agricultural use or equipment		
2330/00	Thermal insulation material (not used)		
2330/50	. Evacuated open-celled polymer material		