

**CPC****COOPERATIVE PATENT CLASSIFICATION****C07B****GENERAL METHODS OF ORGANIC CHEMISTRY; APPARATUS THEREFOR** (preparation of carboxylic acid esters by telomerisation[C07C 67/47](#); telomerisation [C08F](#))**NOTES**

1. In this subclass, the functional group which is present already in some residue being introduced and is not substantially involved in a chemical reaction, is not considered as the functional group which is formed or introduced as a result of the chemical reaction.
2. In this subclass, the following term is used with the meaning indicated:
  - "separation" means separation only for the purposes of recovering organic compounds.
3. In this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place according to the type of reaction employed, noting the bond or the functional group which is formed or introduced as a result of the chemical reaction.
4. When classifying in this subclass, classification is also made in group [B01D 15/08](#) insofar as subject matter of general interest relating to chromatography is concerned.
5. [C07B 59/00](#) and subgroups thereof are used for the classification of individual labelled compounds as well as for general methods
6. [C07B 61/02](#) is used for the classification of individual free radicals as well as for general methods

**C07B 31/00****Reduction in general****C07B 33/00****Oxidation in general****Reactions without formation or introduction of functional groups containing hetero atoms****C07B 35/00****Reactions without formation or introduction of functional groups containing hetero atoms, involving a change in the type of bonding between two carbon atoms already directly linked**[C07B 35/02](#)

. Reduction

[C07B 35/04](#)

. Dehydrogenation

[C07B 35/06](#)

. Decomposition, e.g. elimination of halogens, water or hydrogen halides

[C07B 35/08](#)

. Isomerisation

**C07B 37/00****Reactions without formation or introduction of functional groups containing hetero atoms, involving either the formation of a carbon-to-carbon bond between two carbon atoms not directly linked already or the disconnection of two directly linked carbon atoms**[C07B 37/02](#)

. Addition

[C07B 37/04](#)

. Substitution

[C07B 37/06](#)

. Decomposition, e.g. elimination of carbon dioxide

- C07B 37/08 . Isomerisation
- C07B 37/10 . Cyclisation
- C07B 37/12 . . Diels-Alder reactions

**Reactions with formation or introduction of functional groups containing hetero atoms**

**C07B 39/00 Halogenation**

**C07B 41/00 Formation or introduction of functional groups containing oxygen**

- C07B 41/02 . of hydroxy or O-metal groups
- C07B 41/04 . of ether, acetal or ketal groups
- C07B 41/06 . of carbonyl groups
- C07B 41/08 . of carboxyl groups or salts, halides or anhydrides thereof
- C07B 41/10 . . Salts, halides or anhydrides of carboxyl groups
- C07B 41/12 . of carboxylic acid ester groups
- C07B 41/14 . of peroxy or hydroperoxy groups

**C07B 43/00 Formation or introduction of functional groups containing nitrogen**

- C07B 43/02 . of nitro or nitroso groups
- C07B 43/04 . of amino groups
- C07B 43/06 . of amide groups
- C07B 43/08 . of cyano groups
- C07B 43/10 . of isocyanate groups

**C07B 45/00 Formation or introduction of functional groups containing sulfur**

- C07B 45/02 . of sulfo or sulfonyldioxy groups
- C07B 45/04 . of sulfonyl or sulfinyl groups
- C07B 45/06 . of mercapto or sulfide groups

**C07B 47/00 Formation or introduction of functional groups not provided for in groups  
[C07B 39/00](#) - [C07B 45/00](#)**

**C07B 49/00 Grignard reactions**

**C07B 51/00 Introduction of protecting groups or activating groups, not provided for in  
the preceding groups**

**C07B 53/00 Asymmetric syntheses**

**C07B 55/00 Racemisation; Complete or partial inversion**

**C07B 57/00 Separation of optically-active compounds**

**C07B 59/00 Introduction of isotopes of elements into organic compounds; {Labelled  
organic compounds per se}**

- C07B 59/001 . {Acyclic or carbocyclic compounds}
- C07B 59/002 . {Heterocyclic compounds}
- C07B 59/004 . {Acyclic, carbocyclic or heterocyclic compounds containing elements other than carbon, hydrogen, halogen, oxygen, nitrogen, sulfur, selenium or tellurium}
- C07B 59/005 . {Sugars; Derivatives thereof; Nucleosides; Nucleotides; Nucleic acids}
- C07B 59/007 . {Steroids}
- C07B 59/008 . {Peptides; Proteins}
  
- C07B 61/00** **Other general methods**
- C07B 61/02 . Generation of organic free radicals; {Organic free radicals per se}

**Purification; Separation; Stabilisation**

- C07B 63/00** **Purification; Separation (separation of optically-active compounds [C07B 57/00](#)); Stabilisation; Use of additives**
  - C07B 63/02 . by treatment giving rise to a chemical modification
  - C07B 63/04 . Use of additives {(anti-oxidant compositions or compositions inhibiting chemical change in general [C09K 15/00](#))}
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- C07B 2200/00** **Indexing scheme relating to specific properties of organic compounds**
- C07B 2200/01 . Charge-transfer complexes
- C07B 2200/03 . Free radicals
- C07B 2200/05 . Isotopically modified compounds, e.g. labelled
- C07B 2200/07 . Optical isomers
- C07B 2200/09 . Geometrical isomers
- C07B 2200/11 . Compounds covalently bound to a solid support
- C07B 2200/13 . Crystalline forms, e.g. polymorphs