

# 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. 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
4. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place 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.
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.}

### 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:

[C07B 60/00](#)

covered by

|  |  |              |  |
|--|--|--------------|--|
| <b>31/00</b>   | <b>Reduction in general</b>  | 41/06        | • of carbonyl groups   |
| <b>33/00</b>   | <b>Oxidation in general</b>  | 41/08        | • of carboxyl groups or salts, halides or anhydrides thereof   |
| <b><u>Reactions without formation or introduction of functional groups containing hetero atoms</u></b> |  | 41/10        | • . Salts, halides or anhydrides of carboxyl groups  |
| <b>35/00</b>   | <b>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</b>  | 41/12        | • of carboxylic acid ester groups  |
| 35/02  | • Reduction  | 41/14        | • of peroxy or hydroperoxy groups  |
| 35/04  | • Dehydrogenation  | <b>43/00</b> | <b>Formation or introduction of functional groups containing nitrogen</b>  |
| 35/06  | • Decomposition, e.g. elimination of halogens, water or hydrogen halides   | 43/02        | • of nitro or nitroso groups   |
| 35/08  | • Isomerisation  | 43/04        | • of amino groups  |
| <b>37/00</b>   | <b>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</b> | 43/06        | • of amide groups  |
| 37/02  | • Addition   | 43/08        | • of cyano groups  |
| 37/04  | • Substitution   | 43/10        | • of isocyanate groups   |
| 37/06  | • Decomposition, e.g. elimination of carbon dioxide  | <b>45/00</b> | <b>Formation or introduction of functional groups containing sulfur</b>  |
| 37/08  | • Isomerisation  | 45/02        | • of sulfo or sulfonyldioxy groups   |
| 37/10  | • Cyclisation  | 45/04        | • of sulfonyl or sulfinyl groups   |
| 37/12  | • . Diels-Alder reactions  | 45/06        | • of mercapto or sulfide groups  |
| <b><u>Reactions with formation or introduction of functional groups containing hetero atoms</u></b>    |  | <b>47/00</b> | <b>Formation or introduction of functional groups not provided for in groups <a href="#">C07B 39/00</a> - <a href="#">C07B 45/00</a></b> |
| <b>39/00</b>   | <b>Halogenation</b>  | <b>49/00</b> | <b>Grignard reactions</b>  |
| <b>41/00</b>   | <b>Formation or introduction of functional groups containing oxygen</b>  | <b>51/00</b> | <b>Introduction of protecting groups or activating groups, not provided for in the preceding groups</b>                                  |
| 41/02  | • of hydroxy or O-metal groups   | <b>53/00</b> | <b>Asymmetric syntheses</b>  |
| 41/04  | • of ether, acetal or ketal groups   | <b>55/00</b> | <b>Racemisation; Complete or partial inversion</b>   |
|  |  | <b>57/00</b> | <b>Separation of optically-active compounds</b>  |
|  |  | <b>59/00</b> | <b>Introduction of isotopes of elements into organic compounds; {Labelled organic compounds per se}</b>                                  |
|  |  | 59/001       | • {Acyclic or carbocyclic compounds}   |
|  |  | 59/002       | • {Heterocyclic compounds}   |

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

**Purification; Separation; Stabilisation**

- 63/00 Purification; Separation (separation of optically-active compounds [C07B 57/00](#)); Stabilisation; Use of additives**
- 63/02 . by treatment giving rise to a chemical modification
- 63/04 . Use of additives {(anti-oxidant compositions or compositions inhibiting chemical change in general [C09K 15/00](#))}

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**2200/00 Indexing scheme relating to specific properties of organic compounds**

- 2200/01 . Charge-transfer complexes
- 2200/03 . Free radicals
- 2200/05 . Isotopically modified compounds, e.g. labelled
- 2200/07 . Optical isomers
- 2200/09 . Geometrical isomers
- 2200/11 . Compounds covalently bound to a solid support
- 2200/13 . Crystalline forms, e.g. polymorphs