

# 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.}

<b>31/00</b>	<b>Reduction in general</b>	41/14	• of peroxy or hydroperoxy groups
<b>33/00</b>	<b>Oxidation in general</b>	<b>43/00</b>	<b>Formation or introduction of functional groups containing nitrogen</b>
<b><u>Reactions without formation or introduction of functional groups containing hetero atoms</u></b>		43/02	• of nitro or nitroso 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>	43/04	• of amino groups
35/02	• Reduction	43/06	• of amide groups
35/04	• Dehydrogenation	43/08	• of cyano groups
35/06	• Decomposition, e.g. elimination of halogens, water or hydrogen halides	43/10	• of isocyanate groups
35/08	• Isomerisation	<b>45/00</b>	<b>Formation or introduction of functional groups containing sulfur</b>
<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>	45/02	• of sulfo or sulfonyldioxy groups
37/02	• Addition	45/04	• of sulfonyl or sulfinyl groups
37/04	• Substitution	45/06	• of mercapto or sulfide groups
37/06	• Decomposition, e.g. elimination of carbon dioxide	<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>
37/08	• Isomerisation	<b>49/00</b>	<b>Grignard reactions</b>
37/10	• Cyclisation	<b>51/00</b>	<b>Introduction of protecting groups or activating groups, not provided for in the preceding groups</b>
37/12	• . . Diels-Alder reactions	<b>53/00</b>	<b>Asymmetric syntheses</b>
<b><u>Reactions with formation or introduction of functional groups containing hetero atoms</u></b>		<b>55/00</b>	<b>Racemisation; Complete or partial inversion</b>
<b>39/00</b>	<b>Halogenation</b>	<b>57/00</b>	<b>Separation of optically-active compounds</b>
<b>41/00</b>	<b>Formation or introduction of functional groups containing oxygen</b>	<b>59/00</b>	<b>Introduction of isotopes of elements into organic compounds; {Labelled organic compounds per se}</b>
41/02	• of hydroxy or O-metal groups	59/001	• {Acyclic or carbocyclic compounds}
41/04	• of ether, acetal or ketal groups	59/002	• {Heterocyclic compounds}
41/06	• of carbonyl groups	59/004	• {Acyclic, carbocyclic or heterocyclic compounds containing elements other than carbon, hydrogen, halogen, oxygen, nitrogen, sulfur, selenium or tellurium}
41/08	• of carboxyl groups or salts, halides or anhydrides thereof	59/005	• {Sugars; Derivatives thereof; Nucleosides; Nucleotides; Nucleic acids}
41/10	• . . Salts, halides or anhydrides of carboxyl groups	59/007	• {Steroids}
41/12	• of carboxylic acid ester groups	59/008	• {Peptides; Proteins}
		<b>61/00</b>	<b>Other general methods</b>

- 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