SECTION C — CHEMISTRY; METALLURGY

C07 ORGANIC CHEMISTRY

C07B GENERAL METHODS OF ORGANIC CHEMISTRY; APPARATUS THEREFOR (preparation of carboxylic acid esters by telomerisation C07C 67/47; processes for preparing macromolecular compounds, e.g. telomerisation C08F, C08G)

Note(s) [4, 2006.01]

1. In this subclass, a functional group which is already present 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.

Subclass index

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31/00 Reduction in general [4, 2006.01]

33/00 Oxidation in general [4, 2006.01]

Reactions without formation or introduction of functional groups containing hetero atoms [4]

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 [4, 2006.01]

35/02 • Reduction **[4, 2006.01]**
35/04 • Dehydrogenation **[4, 2006.01]**
35/06 • Decomposition, e.g. elimination of halogens, water or hydrogen halides **[4, 2006.01]**
35/08 • Isomerisation **[4, 2006.01]**

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 [4, 2006.01]

37/02 • Addition **[4, 2006.01]**
37/04 • Substitution **[4, 2006.01]**
37/06 • Decomposition, e.g. elimination of carbon dioxide **[4, 2006.01]**
37/08 • Isomerisation **[4, 2006.01]**
37/10 • Cyclisation **[4, 2006.01]**
37/12 • • Diels-Alder reactions **[4, 2006.01]**

Reactions with formation or introduction of functional groups containing hetero atoms [4]

39/00 Halogenation [4, 2006.01]

41/00 Formation or introduction of functional groups containing oxygen [4, 2006.01]

41/02 • of hydroxy or O-metal groups **[4, 2006.01]**
41/04 • of ether, acetal or ketal groups **[4, 2006.01]**
41/06 • of carbonyl groups **[4, 2006.01]**
41/08 • of carboxyl groups or salts, halides or anhydrides thereof **[4, 2006.01]**
41/10 • • Salts, halides or anhydrides of carboxyl groups **[4, 2006.01]**
41/12 • of carboxylic acid ester groups **[4, 2006.01]**
41/14 • of peroxy or hydroperoxy groups **[4, 2006.01]**

43/00 Formation or introduction of functional groups containing nitrogen [4, 2006.01]

43/02 • of nitro or nitroso groups **[4, 2006.01]**
43/04 • of amino groups **[4, 2006.01]**
43/06 • of amide groups **[4, 2006.01]**
43/08 • of cyano groups **[4, 2006.01]**
43/10 • of isocyanate groups **[4, 2006.01]**

45/00 Formation or introduction of functional groups containing sulfur [4, 2006.01]

45/02 • of sulfo or sulfonyldioxy groups **[4, 2006.01]**
45/04 • of sulfonyl or sulfinyl groups **[4, 2006.01]**
45/06 • of mercapto or sulfide groups **[4, 2006.01]**

47/00 Formation or introduction of functional groups not provided for in groups C07B 39/00-C07B 45/00 [4, 2006.01]

49/00 Grignard reactions [4, 2006.01]

51/00 Introduction of protecting groups or activating groups, not provided for in groups C07B 31/00-C07B 49/00 [4, 2006.01]

53/00 Asymmetric syntheses [4, 2006.01]

55/00 Racemisation; Complete or partial inversion [4, 2006.01]

57/00 Separation of optically-active organic compounds [4, 2006.01]

59/00 Introduction of isotopes of elements into organic compounds [4, 2006.01]

60/00 Generation of organic free radicals [2011.01]

61/00 Other general methods [4, 2006.01]

Purification; Separation; Stabilisation [4]

63/00 Purification; Separation specially adapted for the purpose of recovering organic compounds (separation of optically-active organic compounds C07B 57/00)**; Stabilisation; Use of additives [4, 2006.01]**

63/02 • by treatment giving rise to a chemical modification **[4, 2006.01]**
63/04 • Use of additives **[4, 2006.01]**