CHEMISTRY; METALLURGY

CHEMISTRY

C09 DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

C09B ORGANIC DYES OR CLOSELY-RELATED COMPOUNDS FOR PRODUCING DYES {, e.g. PIGMENTS}; MORDANTS; LAKES (fermentation or enzyme using processes to synthesise a desired chemical compound C12P)

NOTE

In this subclass, in the absence of an indication to the contrary, a compound is classified in the last appropriate place

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

- C09B 23/01 covered by C09B 23/000 - C09B 23/0091
- C09B 29/01 covered by C09B 29/0003 - C09B 29/0022
- C09B 29/03 covered by C09B 29/0007
- C09B 29/033 covered by C09B 29/0025
- C09B 29/036 covered by C09B 29/0029
- C09B 29/039 covered by C09B 29/0074 - C09B 29/0081
- C09B 29/042 covered by C09B 29/0085
- C09B 29/045 covered by C09B 29/0088
- C09B 29/048 covered by C09B 29/0092
- C09B 29/085 covered by C09B 29/0003 - C09B 29/0848
- C09B 29/09 covered by C09B 29/0025 - C09B 29/0801 - C09B 29/0848
- C09B 29/15 covered by C09B 29/103
- C09B 29/40 covered by C09B 29/3608 - C09B 29/3613
- C09B 29/42 covered by C09B 29/3617 - C09B 29/3639
- C09B 29/44 covered by C09B 29/3643
- C09B 29/46 covered by C09B 29/3652
- C09B 29/48 covered by C09B 29/3656
- C09B 29/50 covered by C09B 29/366
- C09B 29/52 covered by C09B 29/3665
- C09B 33/13 covered by C09B 33/12
- C09B 46/00 covered by C09B 27/00 - C09B 45/00
- C09B 67/02 covered by C09B 67/0097
- C09B 67/04 covered by C09B 67/0001
- C09B 67/06 covered by C09B 67/0003
- C09B 67/08 covered by C09B 67/0004
- C09B 67/10 covered by C09B 67/0014
- C09B 67/12 covered by C09B 67/0016
- C09B 67/14 covered by C09B 67/0017
- C09B 67/16 covered by C09B 67/0019
- C09B 67/18 covered by C09B 67/002
- C09B 67/20 covered by C09B 67/006
- C09B 67/22 covered by C09B 67/0033
- C09B 67/24 covered by C09B 67/0072
- C09B 67/26 covered by C09B 67/0073
- C09B 67/28 covered by C09B 67/0077
- C09B 67/30 covered by C09B 67/0078
- C09B 67/32 covered by C09B 67/0075
- C09B 67/34 covered by C09B 67/0076
- C09B 67/36 covered by C09B 67/0079
- C09B 67/38 covered by C09B 67/008
- C09B 67/40 covered by C09B 67/0082
### Anthracene dyes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Covered By</th>
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<tr>
<td>C09B 67/42</td>
<td>Dyes with anthracene nucleus not condensed with any other ring</td>
<td>C09B 67/007, C09B 67/005, C09B 67/002, C09B 67/001</td>
</tr>
<tr>
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<td>C09B 67/1/48</td>
</tr>
</tbody>
</table>

*Note: The last row is repeated to cover all possible combinations.*
Anthracene dyes

Dyes with an anthracene nucleus condensed with one or more carbocyclic rings

3/02 Benzanthrones
3/04 Preparation by synthesis of the nucleus
3/06 Preparation from starting materials already containing the benzanthrone nucleus
3/08 by halogenation
3/10 Amino derivatives
3/12 Dibenzanthryls
3/14 Perylene derivatives
3/16 Preparation by synthesis of the nucleus
3/18 Preparation from starting materials already containing the perylene nucleus
3/20 by halogenation
3/22 Dibenzanthrones; Isodibenzanthrones
3/24 Preparation by synthesis of the nucleus
3/26 from dibenzanthryls
3/28 from perylene derivatives
3/30 Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus
3/32 by halogenation
3/34 by oxidation
3/36 by etherification of hydroxy compounds
3/38 by introduction of hydrocarbon or acyl residues into amino groups
3/40 Pyranthrones
3/42 Preparation by synthesis of the nucleus
3/44 Preparation from starting materials already containing the pyranthrone nucleus
3/46 by halogenation

NOTE
After the notation of groups C09B 1/58, C09B 1/585, C09B 1/60 and separated therefrom by a + sign, notations concerning the nature of other substituents may be added. These notations are selected from the groups:

C09B 1/02
C09B 1/16
C09B 1/22
C09B 1/28
C09B 1/32
C09B 1/36
C09B 1/50
and have the same meaning as the corresponding groups

5/00 Dyes with an anthracene nucleus condensed with one or more heterocyclic rings with or without carbocyclic rings

5/002 [the heterocyclic rings being condensed in peri position and in 1-2 or 2-3 position]
5/004 [only O-containing hetero rings]
5/006 [only S-containing hetero rings]
5/008 [only N-containing hetero rings]
5/02 the heterocyclic ring being [only] condensed in peri position
5/022 [not provided for in one of the sub groups C09B 5/04 - C09B 5/20]
5/024 [only O-containing hetero rings]
5/026 [only S-containing hetero rings]
5/028 [only N-containing hetero rings]
5/04 Pyrazolanthrones
5/06 Benzanthronyl-pyrazolanthrone condensation products
5/08 Dipyrzanthones
5/085 [Condensation products of dipyrzanthones]
5/10 Isothiazolanthrones; Isoxazolanthrones; Isothioelenzolanthrones
5/12 Thiophenanthrones
5/14 Benz-alphaenanzanthrones (anthrapyridones)
5/16 Benz-diazabenanthrones, e.g. anthrapyrimidones
5/18 Coeroxene; Coerthiene; Coeramidene; Derivatives thereof
5/20 Flavanthrones
5/22 Preparation from starting materials already containing the flavanthrone nucleus
5/24 the heterocyclic rings being [only] condensed with an anthraquinone nucleus in 1-2 or 2-3 position
5/2409 [not provided for in one of the sub groups C09B 5/26 - C09B 5/62]
5/2418 [only oxygen-containing hetero rings]
5/2427 [only sulfur-containing hetero rings]
5/2436 [only nitrogen-containing hetero rings]
Anthracene dyes

5/2445 . . . . [Phthaloyl isoindoles]
5/2454 . . . . {5,6 phthaloyl dihydro isoindoles}
5/2463 . . . . {1,3 o xo or imino derivatives}
5/2472 . . . . {1,3 dioxo derivatives}
5/2481 . . . . {1-o xo-3-imino derivatives}
5/249 . . . . {1,3 dinitro derivatives}
5/26 . . . . Carbazoles of the anthracene series
5/28 . . . . Anthrimide carbazoles
5/30 . . . . 1,2 azoles of the anthracene series
5/32 . . . . 1,3 azoles of the anthracene series
5/34 . . . . Anthraquinone acidones or thioxanthrones
5/342 . . . . [Anthraquinone thioxanthrones]
5/345 . . . . {Compounds containing thioxanthone and carbazole rings}
5/347 . . . . [Anthraquinone acidones]
5/36 . . . . Amino acridones
5/38 . . . . Compounds containing acridone and carbazole rings
5/40 . . . . Condensation products of benzanthryl- amino-anthraquinones
5/42 . . . . Pyridino anthraquinones
5/44 . . . . Azines of the anthracene series
5/46 . . . . Para-diazines
5/48 . . . . Bis-anthraquinonediazines (indanthrone)
5/50 . . . . Preparation by alkaline melting of 2- amino-anthraquinones
5/52 . . . . Preparation by condensation of 1,2- halogeno-amino-anthraquinones
5/54 . . . . Preparation from 2-amino-anthrabhydroquinones
5/56 . . . . Preparation from starting materials already containing the indanthrene nucleus
5/58 . . . . by halogenation
5/60 . . . . Thiazines; Oxazines
5/62 . . . . Cyclic imides or amidines of peri-dicarboxylic acids of the anthracene, benzanthrene, or perylene series

6/00 Anthracene dyes not provided for above

7/00 Indigoid dyes
7/02 . . . . Bis-indole indigos
7/04 . . . . Halogenation thereof
7/06 . . . . Indone-thionaphene indigos
7/08 . . . . Other indole-indigos
7/10 . . . . Bis-thionaphene indigos
7/12 . . . . Other thionaphene indigos

9/00 Esters or ester-salts of leuco compounds of vat dyestuffs
9/02 . . . . of anthracene dyes
9/04 . . . . of indigoid dyes

11/00 Diaryl- or triaryl methane dyes
11/02 . . . . derived from diarylmethanes
11/04 . . . . derived from triarylmethanes, { i.e. central C-atom is substituted by amino, cyano, alkyl}
11/06 . . . . Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus [and their ethers or esters]
11/08 . . . . Phthalines; [Phenolphthalines; Fluorescein]
11/10 . . . . Amino derivatives of triarylmethanes
11/12 . . . . without any OH group bound to an aryl nucleus

11/14 . . . . Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof and aromatic amines
11/16 . . . . Preparation from diaryleketones or diarylcarbinols, { e.g. benzhydrol}
11/18 . . . . Preparation by oxidation
11/20 . . . . Preparation from other triaryl methane derivatives, { e.g. by substitution, by replacement of substituents (for dyesalts of triarylmethane dyes C09B 69/06)}
11/22 . . . . containing OH groups bound to an aryl nucleus [and their ethers and esters]
11/24 . . . . Phthalines containing amino groups, { Phthalanes; Fluoranes; Phthalides; Rhodamine dyes; Phthalines having heterocyclic aryl rings; Lactone or lactame forms of triarylmethylene dyes}
11/245 . . . . [Phthalines having both OH and amino substituent(s) on aryl ring]
11/26 . . . . Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic ([phthalines C09B 11/24])
11/28 . . . . Pyronines, { Xanthon, thioxanthon, selenoxanthon, telluroxanthon dyes}

13/00 Oxyketo dyes
13/02 . . . . of the naphthalene series, e.g. naphtazarin
13/04 . . . . of the pyrene series
13/06 . . . . of the acetophenone series

Acridine, azine, oxazine, or thiazine dyes

15/00 Acridine dyes
17/00 Azine dyes
17/005 . . . . (Dyes containing at least four ortho-condensed rings with at least two ring N-atoms in the system, e.g. fluoflavine, fluorubine, fluorindine)
17/02 . . . . of the benzene series
17/04 . . . . of the naphthalene series
17/06 . . . . Fluorindine or its derivatives

19/00 Oxazine dyes
19/005 . . . . [Galloycyanine dyes]
19/02 . . . . Bisoxazines prepared from aminoquinones

21/00 Thiazone dyes

Quinoline or polymethine dyes

23/00 Methine or polymethine dyes, e.g. cyanine dyes
23/0008 . . . . {substituted on the polymethine chain}
23/0016 . . . . {the substituent being a halogen atom}
23/0025 . . . . {the substituent being bound through an oxygen atom}
23/0033 . . . . {the substituent being bound through a sulfur atom}
23/0041 . . . . {the substituent being bound through a nitrogen atom}
23/005 . . . . {the substituent being a COOH and/or a functional derivative thereof}
23/0058 . . . . [the substituent being CN]
23/0066 . . . . {the polymethine chain being part of a carbocyclic ring, e.g. benzene, naphtalene, cyclohexene, cyclobuteneum-quadratic acid}
23/0075 . . . . {the polymethine chain being part of an heterocyclic ring}
Quinoline or polymethine dyes

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Hydrazone dyes; Triazene dyes

Hydrazone dyes; Triazene dyes

Azo dyes

NOTE

In groups C09B 27/00 - C09B 45/00, arrows in the formulae of the various types of azo dyes indicate which part of an azo dye, prepared by diazotising and coupling, is derived from the diazo component and which part is derived from the coupling component. The arrow is pointing to the part derived from the coupling component.

27/00 Preparations in which the azo group is formed in any way other than by diazotising and coupling, e.g. oxidation

27/06 Tartrazines

29/00 Monoazo dyes prepared by diazotising and coupling

29/003 . . . (from diazotized anilines)

29/007 . . . (containing acid groups, e.g. CO₂H, SO₂H, PO₃H₄, OSO₂H, OPO₂H₂; Salts thereof)

29/011 . . . (from diazotized anilines directly substituted by a heterocyclic ring (not condensed))

29/014 . . . (from diazotized aminonaphthalene)

29/018 . . . (from diazotized aminopolycyclic rings)

29/022 . . . (from diazotized aminoanthracone)

29/025 . . . (from diazotized amino heterocyclic compounds)

29/029 . . . (the heterocyclic ring containing only nitrogen as heteroatom)

29/033 . . . (containing a five-membered heterocyclic ring with one nitrogen atom)

29/037 . . . (containing a five-membered heterocyclic ring with two nitrogen atoms)

29/04 . . . (containing a five-membered heterocyclic ring with three nitrogen atoms)

29/044 . . . (containing a five-membered heterocyclic ring with four nitrogen atoms)

29/048 . . . (containing a six-membered heterocyclic ring with one nitrogen atom)

29/051 . . . (containing a six-membered heterocyclic ring with two nitrogen atoms)

29/055 . . . (the heterocyclic ring containing only oxygen as heteroatom)

29/059 . . . (the heterocyclic ring containing only sulfur as heteroatom)

29/062 . . . (the heterocyclic ring containing nitrogen and oxygen as heteroatoms)

29/066 . . . (containing a five-membered heterocyclic ring with nitrogen and oxygen atoms)

29/07 . . . (containing a six-membered heterocyclic ring with nitrogen and oxygen atoms)

29/074 . . . (the heterocyclic ring containing nitrogen and sulfur as heteroatoms)

29/077 . . . (containing a five-membered heterocyclic ring with one nitrogen and one sulfur as heteroatoms)

29/081 . . . (Isothiazoles or condensed isothiazoles)

29/085 . . . (Thiazoles or condensed thiazoles)

29/088 . . . . (Benzothiazoles)

29/092 . . . (containing a five-membered heterocyclic ring with two nitrogen and one sulfur as heteroatoms)

29/096 . . . (from other diazotized amino heterocyclic rings)

29/09 . . . (from diazotised o-amine-hydroxy compounds)

29/06 . . . (from coupling components containing amino as the only directing group)

29/065 . . . (containing water solubilizing groups)

29/08 . . . Amino benzenes

29/081 . . . (containing acid groups, e.g. COOH, SO₂H, PO₃H₂, OSO₂H, OPO₂H₂, SO₃NSO₂R or salts thereof, R being hydrocarbonyls)

29/082 . . . (containing COOH)
Azo dyes

NHCO- C$_6$H$_5$ benzene ring excepted the substituents: CH$_3$ { characterised by the substituent on the free of acid groups } directly to the benzene ring }

NHCO-alkyl, NHCOO-alkyl, substituted by carbocyclic ring linked through -N= ( for heterocyclic ring, -S- ) linked through -O- ( for OH see ), O-alkyl, NHCO-alkyl, substituted by carbocyclic ring linked through -N= ( for heterocyclic ring, -S- ) linked through -O- ( for OH see ) substituted by halogen } substituted by NO$_2$ } Amino naphthalenes substituted by NO$_2$ } from coupling components containing hydroxy as the only directing group } [of the naphthalene series] Hydroxy carboxylic acids of the naphthalene series } of the benzene series Hydroxy carboxylic acids Naphthol-sulfonic acids ortho-Hydroxy carbamamides of the naphthalene series of heterocyclic compounds from coupling components containing both hydroxyl and amino directing groups Amino phenols Amino naphthols Amino naphtholsulfonic acid from coupling components containing a reactive methylene group containing acid groups, e.g. COOH, SO$_3$H, PO$_2$H$_2$, OPO$_3$H$_2$; Salts thereof } [free of acid groups] containing NCCH$_2$CON-aryl, NCOCH$_2$CON-aryl, ROC-CH$_2$CON-aryl] Aceto- or benzoxyacetlylaryldides containing acid groups, e.g. COOH, SO$_3$H, PO$_2$H$_2$, OPO$_3$H$_2$; Salts thereof] Carboxylic arylides Heterocyclic arylides, e.g. acetooacetylamino benzimidazolone [free of acid groups] [Carboxylic arylides] Heterocyclic arylides, e.g. acetooacetylamino benzimidazolone from other coupling components from heterocyclic compounds [containing only a nitrogen as heteroatom] [containing a five-membered heterocyclic ring with only one nitrogen as heteroatom] [from an indole] [containing a six-membered heterocyclic with only one nitrogen as heteroatom] from a pyridine ring from a pyridine ring containing one or more hydroxyl groups ( or = O) [from diazotized amino carbocyclic rings] [from diazotized heterocyclic rings] [from a pyridine ring containing one or more amino groups] [from quinolines or hydrogenated quinolines] [containing a five-membered ring with two nitrogen atoms as heteroatoms] [containing a 1,2-diazoles or hydrogenated 1,2-diazoles] [containing amino-1,2-diazoles]
Disazo and polyazo dyes of the type A→B→C, A→B→C→D, or the like, prepared by diazotising and coupling

Disazo and polyazo dyes of the types A→B→K→B, A→B→K→C, or the like, prepared by diazotising and coupling

Disazo and polyazo dyes of the type A←D→B prepared by diazotising and coupling

Azo dyes
- . . . containing a six-membered ring with one nitrogen atom as the only ring hetero-atom
- Quinolines or hydrogenated quinolines
- Trisazo dyes
- from a coupling component “D” containing a directive amine group
- from a coupling component “D” containing a directive hydroxyl group
- from a coupling component “D” containing reactive methylene groups
- from other coupling components “D”
- Heterocyclic compounds
- Other polyazo dyes

Heterocyclic components
- containing acid groups, e.g. —COOH, —SO₂H, —PO₃H₂; Salts thereof

Phenols
- containing acid groups, e.g. —CO₂H, —SO₂H, —PO₂H₂; Salts thereof

Naphthols
- containing acid groups, e.g. —CO₂H, —SO₂H, —PO₂H₂; Salts thereof

ortho-Hydroxy carboxylic acid amides
- containing acid groups, e.g. —COOH, —SO₂H, —PO₂H₂; Salts thereof

from a coupling component "C" containing direct hydroxyl and amino groups

from a coupling component "C" containing reactive methylene groups

Aceto- or benzoyl-acetylarylides
- containing acid groups, e.g. —COOH, —SO₂H, —PO₂H₂; Salts thereof

from other coupling components "C"
Azo dyes

Trisazo dyes of the type

\[
A \rightarrow B \rightarrow C \rightarrow D
\]

35/38 . . . Trisazo dyes of the type

\[
A \rightarrow B \rightarrow C
\]

35/40 . . . the component K being a dihydroxy or polyhydroxy compound

35/42 . . . the component K being a diamine or polyamine

35/44 . . . the component K being a hydroxy amine

35/46 . . . the component K being an amino naphthol

35/461 . . . (D being derived from diaminobenzene)

35/462 . . . (D being derived from diaminonaphthalene)

35/463 . . . {D being derived from diaminodiphenyl}

35/464 . . . {D being derived from diaminodiaryl(thio)ether}

35/465 . . . {D being derived from diaminodiarylamine}

35/466 . . . {D being derived from diaminodiarylurea}

35/467 . . . {D being derived from diaminodiaryl linked through CON<, SO2N<, CSN<}

35/468 . . . {D being derived from diaminodiarylketone}

35/469 . . . {D being derived from heterocyclic diamine}

35/48 . . . the component K being heterocyclic

35/50 . . . Tetrizo dyes

35/52 . . . of the type

\[
D \rightarrow E \rightarrow F
\]

35/54 . . . of the type

\[
D \rightarrow E \rightarrow F'
\]

35/56 . . . of the type

\[
D \rightarrow E \rightarrow F
\]

35/58 . . . of the type

\[
D \rightarrow E \rightarrow F
\]

35/60 . . . of the type

\[
D \rightarrow E \rightarrow F
\]

35/62 . . . of the type

\[
D \rightarrow E \rightarrow F
\]

35/64 . . . D is naphthalene

35/66 . . . D is diphenyl

35/68 . . . D is diaryl ether, a diarylsulfide or a diarylpolsulfide

35/35 . . . Trisazo dyes in which the tetrazo component is a diamino-azo-aryl compound

35/36 . . . Trisazo dyes of the type

\[
A \rightarrow B \rightarrow C
\]

35/37 . . . D is diarylamine

35/372 . . . D is diarylurea

35/374 . . . D contains two aryl nuclei linked by at least one of the groups —CON<, —SO2N<, —SO2—, or —SO2—O—

35/376 . . . D is a heterocyclic compound

35/378 . . . Trisazo dyes of the type

\[
A \rightarrow B \rightarrow C
\]

35/379 . . . characterised by two coupling components of different types

35/39 . . . characterised by the tetrazo component

35/04 . . . the tetrazo component being a benzene derivative

35/06 . . . the tetrazo component being a naphthalene derivative

35/08 . . . the tetrazo component being a derivative of biphenyl

35/10 . . . from two coupling components of the same type

35/105 . . . (from two coupling components with reactive methylene groups)

35/12 . . . from amines

35/14 . . . from hydroxy compounds

35/16 . . . from hydroxy-amine

35/18 . . . from heterocyclic compounds

35/185 . . . {from pyridine or pyridone components}

35/20 . . . from two coupling compounds of different types

35/205 . . . the tetrazo component being a derivative of a diaryl- or triaryl-alkane or-alkene

35/21 . . . of diarylmethane or triarylmethane

35/215 . . . of diareylethane or diareylethene (other stilbene-azo dyes, C09B 56/04, C09B 56/06)

35/22 . . . the tetrazo component being a derivative of a diaryl ether

35/227 . . . the tetrazo component being a derivative of a diaryl sulfide or a diaryl polysulfide

35/233 . . . the tetrazo component being a derivative of a diaryl ketone or benzil

35/24 . . . the tetrazo component being a derivative of a diaryl amine

35/26 . . . the tetrazo component containing two aryl nuclei linked by at least one of the groups —CON<, —SO2N<, —SO2—, or —SO2—O—

35/30 . . . from two identical coupling components

35/32 . . . from two different coupling components

35/34 . . . the tetrazo component being heterocyclic

35/35 . . . Trisazo dyes in which the tetrazo component is a diamino-azo-aryl compound

35/36 . . . Trisazo dyes of the type

\[
A \rightarrow B
\]

35/37 . . . D is benzene
Azo dyes

37/00 Azo dyes prepared by coupling the diazotised amine with itself

39/00 Other azo dyes prepared by diazotising and coupling

41/00 Special methods of performing the coupling reaction (reaction of mixtures of diazo and coupling components, C09B 67/0033)

41/001 . . . [characterised by the coupling medium]
41/002 . . . [containing a solvent]
41/003 . . . [containing a polymer (surface-active polyethylene glycols, C09B 41/005)]
41/004 . . . [containing a reaction assistant, e.g. urea]
41/005 . . . [containing low molecular weight dispersing agents; containing surface active polyethylene glycols]
41/006 . . . [characterised by process features]
41/007 . . . [including condition or time responsive control, e.g. automatically controlled processes; Stepwise coupling]
41/008 . . . [using mechanical or physical means, e.g. using ultra-sound, milling during coupling or microreactors]
41/009 . . . [Diazotising and coupling in one step]

43/00 Preparation of azo dyes from other azo compounds

43/003 . . . [Cyclisation of azo dyes; Condensation of azo dyes with formation of ring, e.g. of azopyrazole dyes]
43/006 . . . [by introduction of hydrocarbon radicals on C-atom of azo dye]
43/02 . . . by sulfonation
43/04 . . . by nitration
43/06 . . . by oxidation
43/08 . . . by reduction
43/085 . . . [by reacting nitro azo dyes with amine or amino azo dye with nitroparaffins]
43/10 . . . with formation of a new azo or an azoxy bridge
43/11 . . . by introducing hydrocarbon radicals or substituted hydrocarbon radicals on primary or secondary amino groups (formation of an amino group by reduction, e.g. of a nitro groups, C09B 43/08)
43/12 . . . by acylation of amino groups
43/124 . . . with monacrylic acid esters, carbamoyl esters or halides, mono- isocyanates, or haloformic acid esters
43/1242 . . . [with heterocyclic monacrylic acid esters]
43/1245 . . . [with formation of NHCOOR, NHCSOR or NHCSOR groups by acylation]
43/1247 . . . [with formation of NHSOOR or NHSO2R radicals]
43/128 . . . Aliphatic, cycloaliphatic or araliphatic acids
43/132 . . . having the carboxylic group directly attached to an aromatic carboxylic ring
43/136 . . . with polyfunctional acylating agents
43/14 . . . with phosgene or thiophosgene
43/145 . . . with polyacrylic acid esters
43/15 . . . . . with formation of cyclic imides of ortho- or peri-dicarboxylic acids
43/155 . . . . . with di- or poly-isocyanates
43/16 . . . . . linking amino-azo or cyanuric acid residues
43/18 . . . by acylation of hydroxy group (or of mercapto group: (OP03H2 and OP(X)(XR)2 with X=O,S,NH and R being hydrocarbon, C09B 69/007)]
43/20 . . . . . with monofunctional acylating, carboxylic acid esters or halides, mono- isocyanates or haloformic acid esters
43/202 . . . . . [Aliphatic, cycloaliphatic, araliphatic carboxylic acids]
43/204 . . . . . [Heterocyclic monocarboxylic acids]
43/206 . . . . . [with formation of OCXN or OSO2N group]
43/208 . . . . . [with formation of OCXXH or OCXXR and R being hydrocarbon]
43/22 . . . . . having the carboxylic group directly attached to an aromatic carboxylic ring
43/24 . . . . . with formation of —O—SO3R or —O—SO3H radicals
43/26 . . . . . with polyfunctional acylating agents
43/263 . . . . . [Polycarboxylic acids]
43/266 . . . . . [Di- or polysiocyanates]
43/28 . . . . . by etherification of hydroxy groups
43/30 . . . . . by esterification of —COOH or —SO3H groups
43/32 . . . . . by reacting carboxylic or sulfonic, or derivatives thereof, with amines; by reacting keto-groups with amines
43/325 . . . . . [by reacting sulfonic acids with amines]
43/34 . . . . . by reacting ortho- or peri-dicarboxylic dyes
43/36 . . . . . with amino-anthracene or amino-anthraquinone dyes
43/38 . . . . . by reacting two or more ortho-hydroxy naphthoic acid dyes with polyamines
43/40 . . . . . by substituting hetero atoms by radicals containing other hetero atoms
43/405 . . . . . [by substituting radicals containing hetero atoms for -SO2R radicals and R being hydrocarbon]
43/42 . . . . . by substituting radicals containing hetero atoms for —CN radicals
43/44 . . . . . by substituting amine groups for hydroxy groups or hydroxy groups for amine groups; Desacetylation of amino-acyl groups; Deaminating

44/00 Azo dyes containing onium groups

44/005 . . . . Special process features in the quaternization reaction]
44/106 . . . [derived from pyrazoles, pyrazolones]
44/107 . . . [characterised by a cyclammonium five-membered specific ring not mentioned hereafter: thiadiazolium, (benz)oxazolium]
44/108 . . . [characterised by a cyclammonium six-membered specific ring not mentioned hereafter, e.g. pyrimidinium, perimidinium, pyridazonium, oxazinium]
44/12 . . . having one nitrogen atom as the only ring hetero atom
44/123 . . . . [in a five-membered ring, e.g. pyrrolium, indolium]
44/126 . . . . [in a six-membered ring, e.g. pyridinium, quinolinium]
44/14 . . . 1, 2-Diazoles or hydrogenated 1,2-diazoles [Pyrazolium; Indazolium]
44/16 . . . 1, 3-Diazoles or hydrogenated 1,3-diazoles [(Benz)imidazolium]
44/18 . . . having three nitrogen atoms as the only ring hetero atoms
44/20 . . . Thiazoles or hydrogenated thiazoles

45/00 Complex metal compounds of azo dyes
45/01 . . . characterised by the method of metallisation
45/02 . . . Preparation from dyes containing in o-position a hydroxy group and in o'-position hydroxy, alkoxy, carboxyl, amino or keto groups
45/025 . . . . [of azo-pyridone series]
45/04 . . . . Azo compounds in general
45/06 . . . . Chromium compounds
45/08 . . . . Copper compounds
45/10 . . . . Cobalt compounds
45/12 . . . . other metal compounds
45/14 . . . . Monoazo compounds
45/16 . . . . containing chromium
45/18 . . . . containing copper
45/20 . . . . containing cobalt
45/22 . . . . containing other metals
45/24 . . . . Disazo or polyazo compounds
45/26 . . . . containing chromium
45/28 . . . . containing copper
45/30 . . . . containing cobalt
45/32 . . . . containing other metals
45/34 . . . Preparation from o-monohydroxy azo compounds having in the o'-position an atom or functional group other than hydroxyl, alkoxy, carboxyl, amino or keto groups
45/36 . . . . by oxidation of hydrogen in o'-position
45/38 . . . . Preparation from compounds with —OH and —COOH adjacent in the same ring or in peri position
45/40 . . . . Chromium compounds
45/42 . . . . Copper compounds
45/44 . . . . Cobalt compounds
45/46 . . . . Other metal compounds
45/48 . . . Preparation from other complex metal compounds of azo dyes
45/482 . . . . [Chromium complexes]
45/485 . . . . [Copper complexes]
45/487 . . . . [Cobalt complexes]

47/00 Porphines; Azaporphines ([non-dyeing compounds C07D 487/22])
47/04 . . . Phthalocyanines [abbreviation: Pc]
47/045 . . . [Special non-pigmentary uses, e.g. catalyst, photosensitisers of phthalocyanine dyes or pigments]
47/06 . . . Preparation from carboxylic acids or derivatives thereof [e.g. anhydrides, amides, mononitriles, phthalimide, o-cyanobenzamide]
47/061 . . . [having halogen atoms linked directly to the Pc skeleton]
47/062 . . . [having alkyl radicals linked directly to the Pc skeleton; having carboxylic groups directly linked to the skeleton, e.g. phenyl]
47/063 . . . [having oxygen or sulfur atom(s) linked directly to the skeleton]
47/064 . . . [having nitrogen atom(s) directly linked to the skeleton]
47/065 . . . [having -COOH or -SOH radicals or derivatives thereof, directly linked to the skeleton]
47/067 . . . from phthalodinitriles [naphthalenedinitriles, aromatic dinitriles prepared in situ, hydrogenated phthalodinitrile]
47/0671 . . . [having halogen atoms linked directly to the Pc skeleton]
47/0673 . . . [having alkyl radicals linked directly to the Pc skeleton; having carboxylic groups directly linked to the skeleton]
47/0675 . . . [having oxygen or sulfur linked directly to the skeleton]
47/0676 . . . [having nitrogen atom(s) linked directly to the skeleton]
47/0678 . . . [having-COOH or -SOH radicals or derivatives thereof directly linked to the skeleton]
47/073 . . . Preparation from isoindolenines [e.g. pyrrolienes]
47/08 . . . Preparation from other phthalocyanine compounds [e.g. cobaltphthalocyanineamine complex]
47/085 . . . [substituting the central metal atom]
47/10 . . . Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton
47/12 . . . Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton
47/14 . . . having alkyl radicals substituted by halogen atoms
47/16 . . . . having alkyl radicals substituted by nitrogen atoms
47/18 . . . Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton
47/20 . . . Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton
47/22 . . . Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton
47/24 . . . Obtaining compounds having —COOH or —SOH radicals, or derivatives thereof, directly bound to the phthalocyanine radical
47/26 . . . Amide radicals
47/28 . . . Phthalocyanine dyes containing —S—SOH radicals
47/30 . . . Metal-free phthalocyanines
47/305 . . . [prepared by demetallizing metal Pc compounds]
Azo dyes

Sulfur dyes

Azo dyes containing other chromophoric systems

Azobenzene dyes

Azo dyes containing other chromophoric systems

Azodyes

Other synthetic dyes of known constitution

Artificial dyes of unknown constitution

Dyes of natural origin prepared from natural sources, e.g. vegetable sources

Reactive dyes, i.e. dyes which form covalent bonds with the substrates or which polymerise with themselves

Metal complex azo dyes

Disazo or polyazo dyes

Metal complexes of organic compounds not being part of a ring (Image)

Dyes containing in the molecule at least one azo group and at least one other chromophore

Dyes containing in the molecule at least one hydroxyl directing group

Dyes containing in the molecule at least one amino directing group

Dyes containing in the molecule at least one reactive methylene group

Dyes containing in the molecule at least one amino directing group and at least one other chromophore

Dyes containing in the molecule at least one hydroxyl directing group

Dyes containing in the molecule at least one hydroxyl directing group and at least one amino directing group

Dyes containing in the molecule at least one reactive methylene group

Dyes containing in the molecule at least one amino directing group and at least one other chromophore
Azo dyes

62/016 . . . Porphins; Azaporphines
62/018 . . . Formazane dyes
62/02 . . . with the reactive group directly attached to a heterocyclic ring
62/021 . . . {Specific dyes not provided for in groups C09B 62/024 - C09B 62/038}
62/022 . . . the heterocyclic ring being alternatively specified
62/024 . . . Anthracene dyes
62/026 . . . Azo dyes
62/0265 . . . {Dyes containing in the molecule at least one azo group and at least one other chromophore group}
62/028 . . . Monoazo dyes
62/03 . . . Disazo or polyazo dyes
62/032 . . . Metal complex azo dyes
62/034 . . . Nitro dyes
62/036 . . . Porphines; Azaporphines
62/038 . . . Formazane dyes
62/04 . . . to a triazine ring
62/043 . . . {Containing two or more triazine rings linked together by a non-chromophoric link}
62/046 . . . {Specific dyes not provided for in group C09B 62/06 - C09B 62/10}
62/06 . . . Anthracene dyes
62/08 . . . Azo dyes
62/082 . . . {Dyes containing in the molecule at least one azo group and at least one other chromophore group}
62/085 . . . Monoazo dyes
62/09 . . . Disazo or polyazo dyes
62/095 . . . Metal complex azo dyes
62/10 . . . Porphines; Azaporphines
62/12 . . . to a pyridazine ring
62/125 . . . {Specific dyes not provided for in groups C09B 62/14 - C09B 62/18}
62/14 . . . Anthracene dyes {(C09B 62/162 takes precedence)}
62/16 . . . Azo dyes
62/162 . . . {Dyes containing in the molecule at least one azo group and at least one other chromophore group}
62/165 . . . Monoazo dyes
62/17 . . . Disazo or polyazo dyes
62/175 . . . Metal complex azo dyes
62/18 . . . Porphyrins; Prophyrinzins {(C09B 62/162 takes precedence)}
62/20 . . . to a pyrimidine ring
62/205 . . . {Specific dyes not provided for in groups C09B 62/22 - C09B 62/26}
62/22 . . . Anthracene dyes {(C09B 62/242 takes precedence)}
62/24 . . . Azo dyes
62/242 . . . {Dyes containing in the molecule at least one azo group and at least one other chromophore group}
62/245 . . . Monoazo dyes
62/25 . . . Disazo or polyazo dyes
62/255 . . . Metal complex azo dyes
62/26 . . . Porphyrins; Prophyrinzins {(C09B 62/242 takes precedence)}
62/28 . . . to a pyrazine ring
62/285 . . . {Specific dyes not provided for in groups C09B 62/30 - C09B 62/34}
62/30 . . . Anthracene dyes {(C09B 62/322 takes precedence)}
62/32 . . . Azo dyes
62/322 . . . {Dyes containing in the molecule at least one azo group and at least one other chromophore group}
62/325 . . . Monoazo dyes
62/33 . . . Disazo or polyazo dyes
62/335 . . . Metal complex azo dyes
62/34 . . . Porphyrins; Prophyrinzins {(C09B 62/322 takes precedence)}
62/343 . . . to a five membered ring
62/3435 . . . {Specific dyes not provided for in groups C09B 62/345 - C09B 62/357}
62/345 . . . Anthracene dyes
62/347 . . . Azo dyes
62/35 . . . Monoazo dyes
62/353 . . . Disazo or polyazo dyes
62/355 . . . Metal complex azo dyes
62/357 . . . Porphyrins; Azaporphines
62/36 . . . to some other heterocyclic ring
62/365 . . . {Specific dyes not provided for in groups C09B 62/36 - C09B 62/42}
62/38 . . . Anthracene dyes
62/40 . . . Azo dyes
62/405 . . . Monoazo dyes
62/41 . . . Disazo or polyazo dyes
62/415 . . . Metal complex azo dyes
62/42 . . . Porphyrins; Azaporphines
62/44 . . . with the reactive group not directly attached to a heterocyclic ring
62/4401 . . . {With two or more reactive groups at least one of them being directly attached to a heterocyclic system and at least one of them being directly attached to a non-heterocyclic system}
62/4403 . . . {The heterocyclic system being a triazine ring}
62/4405 . . . {Dioxazine dyes}
62/4407 . . . {Formazane dyes}
62/4409 . . . {Anthracene dyes}
62/4411 . . . {Azo dyes}
62/4413 . . . {Non-metallized monoazo dyes}
62/4415 . . . {Disazo or polyazo dyes}
62/4416 . . . {Metal complex azo dyes}
62/4418 . . . {Porphyrins; Azaporphines}
62/442 . . . {The heterocyclic system being a pyrazine ring}
62/4422 . . . {The heterocyclic system being a pyrimidine ring}
62/4424 . . . {Azo dyes}
62/4426 . . . {The heterocyclic system being a pyrazine}
62/4428 . . . {The heterocyclic system being a five membered ring}
62/443 . . . the reactive group being alternatively specified
62/445 . . . Anthracene dyes
62/447 . . . Azo dyes
62/45 . . . Monoazo dyes
62/453 . . . Disazo or polyazo dyes
62/455 . . . Metal complex azo dyes
62/457 . . . Porphyrins; Azaporphines
62/463 . . . Formazane dyes
.. the reactive group being an acryloyl group, a quaternised or non-quaternised aminooalkyl carbonyl group or a (—N)—CO—A—O—X or (—N)—CO—A—Hal group, wherein A is an alkyene or alkylidene group, X is hydrogen or an acyl radical of an organic or inorganic acid, Hal is a halogen atom, and n is 0 or 1

.. Anthracene dyes

.. Azo dyes

.. Monoazo dyes

.. Disazo or polyazo dyes

.. Metal complex azo dyes

.. Porphines; Azaporphines

.. the reactive group being a halo-cyclobutyl-carbonyl, halo-cyclobutyl-vinyl-carbonyl, or halo-cyclobutlen-carbonyl group

.. Anthracene dyes

.. Azo dyes

.. Monoazo dyes

.. Disazo or polyazo dyes

.. Metal complex azo dyes

.. Porphines; Azaporphines

.. the reactive group being a monoesterified hydroxyalkyl sulfonoyl or mercaptalkyl sulfonoyl group, a quaternised or non-quaternised aminoalkyl sulfonoyl group, a heteroarylmercapto alkyl sulfonoyl group, a vinyl sulfonoyl or a substituted vinyl sulfonoyl group, or a thiophenecyclobutyl-carbonyl group

.. Anthracene dyes

.. Azo dyes

.. Monoazo dyes

.. Disazo or polyazo dyes

.. Metal complex azo dyes

.. Porphines; Azaporphines

.. the reactive group being a N-methylol group or an O-derivative thereof

.. Anthracene dyes

.. Azo dyes

.. Monoazo dyes

.. Disazo or polyazo dyes

.. Metal complex azo dyes

.. Porphines; Azaporphines

.. Metal complex azo dyes

.. Disazo or polyazo dyes

.. Metal complex azo dyes

.. Porphines; Azaporphines

.. Lakes; Mordants; Dyestuff preparations

.. [Metal lakes of dyes (complex metal compounds of azo dyes C09B 45/00, metal complexes of colourless compounds C09B 57/10)]

.. Composition containing mordants

.. Influencing the physical, e.g. the dyeing or printing properties of dyestuffs without chemical reactions, e.g. by treating with solvents (grinding or grinding assistants, coating of pigments or dyes); Process features in the making of dyestuff preparations; Dyestuff preparations of a special physical nature, e.g. tablets, films

.. [Post-treatment of organic pigments or dyes]

.. [Grinding; Milling with solid grinding or milling assistants]

.. [Drying, e.g. sprax drying; Sublimation of the solvent]

.. [Coated particulate pigments or dyes]

.. [the pigments being nanoparticles]

.. [with inorganic coatings]

.. [with organic coatings]

.. [containing organic acid derivatives]

.. [containing resinic acid derivatives]

.. [containing amine derivatives, e.g. polyamines]

.. [with polymeric coatings]

.. [Influencing the physical properties by treatment with a liquid, e.g. solvents]

.. [of azoic pigments]

.. [of phthalocyanines]

.. [Influencing the physical properties by treatment with an acid, H₂SO₄]
Lakes; Mordants; Dyestuff preparations

... [of phthalocyanines]
67/002 . . . [Influencing the physical properties by treatment with an amine]
67/0021 . . . [Flushing of pigments]
67/0022 . . . [Wet grinding of pigments]
67/0023 . . . [of phthalocyanines]
67/0025 . . . [of phthalocyanine pigments]
67/0026 . . . [of quinacridones]
67/0028 . . . [of azo compounds]
67/0029 . . . [of monoazo compounds]
67/003 . . . [of diketopyrrolopyrrole]
67/0032 . . . [Treatment of phthalocyanine pigments (C09B 67/0016, C09B 67/0019 take precedence)]
67/0033 . . . [Blends of pigments; Mixtures crystals; Solid solutions]
67/0034 . . . [Mixtures of two or more pigments or dyes of the same type]
67/0035 . . . [Mixtures of phthalocyanines]
67/0036 . . . [Mixtures of quinacridones]
67/0038 . . . [Mixtures of anthraquinones]
67/0039 . . . [Mixtures of diketopyrrolopyrroles]
67/004 . . . [Mixtures of two or more reactive dyes]
67/0041 . . . [mixtures containing one azo dye]
67/0042 . . . [Mixtures containing two reactive dyes one of them being an azo dye]
67/0044 . . . [both having the reactive group directly attached to a heterocyclic system]
67/0045 . . . [both having the reactive group not directly attached to a heterocyclic system]
67/0046 . . . [Mixtures of two or more azo dyes]
67/0047 . . . [Mixtures of two or more reactive azo dyes]
67/0048 . . . [all the reactive groups being directly attached to a heterocyclic system]
67/005 . . . [all the reactive groups being not directly attached to a heterocyclic system]
67/0051 . . . [mixture of two or more monoazo dyes]
67/0052 . . . [Mixtures of two or more monoazo dyes]
67/0053 . . . [all the reactive groups being directly attached to a heterocyclic system]
67/0054 . . . [all the reactive groups not being directly attached to a heterocyclic system]
67/0055 . . . [Mixtures of two or more disazo dyes]
67/0057 . . . [Mixtures of two or more reactive disazo dyes]
67/0058 . . . [all the reactive groups are directly attached to a heterocyclic system]
67/0059 . . . [all the reactive groups are not directly attached to a heterocyclic system]
67/006 . . . [Preparation of organic pigments]
67/0061 . . . [by grinding a dyed resin]
67/0063 . . . [of organic pigments with only macromolecular substances]
67/0064 . . . [of phthalocyanines with only macromolecular substances]
67/0065 . . . [of organic pigments with only non-macromolecular compounds]
67/0066 . . . [Aqueous dispersions of pigments containing only dispersing agents]
67/0067 . . . [Aqueous dispersions of phthalocyanine pigments containing only dispersing agents]
67/0069 . . . [Non aqueous dispersions of pigments containing only a solvent and a dispersing agent]
67/007 . . . [Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent]
67/0071 . . . [Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions]
67/0072 . . . [Preparations with anionic dyes or reactive dyes]
67/0073 . . . [Preparations of acid or reactive dyes in liquid form]
67/0075 . . . [Preparations with cationic dyes]
67/0076 . . . [Preparations of cationic or basic dyes in liquid form]
67/0077 . . . [Preparations with possibly reduced vat, sulfur or indigo dyes]
67/0078 . . . [Preparations of vat, sulfur or indigo dyes in liquid form]
67/0079 . . . [Azoic dyestuff preparations]
67/008 . . . [Preparations of disperse dyes or solvent dyes]
67/0082 . . . [in liquid form]
67/0083 . . . [Solutions of dyes]
67/0084 . . . [Dispersions of dyes]
67/0085 . . . [Non common dispersing agents]
67/0086 . . . [anionic dispersing agents]
67/0088 . . . [cationic dispersing agents]
67/0089 . . . [non ionic dispersing agent, e.g. EO or PO addition products]
67/009 . . . [polymeric dispersing agent]
67/0091 . . . [Process features in the making of dispersions, e.g. ultrasonics]
67/0092 . . . [Dyes in solid form]
67/0094 . . . [Treatment of powders, e.g. antidusting]
67/0095 . . . [Process features in the making of granulates]
67/0096 . . . [Purification; Precipitation; Filtration]
67/0097 . . . [Dye preparations of special physical nature; Tablets, films, extrusion, microcapsules, sheets, pads, bags with dyes]
67/0098 . . . [Organic pigments exhibiting interference colours, e.g. nacrous pigments]
68/00 . . . [Organic pigments surface-modified by grafting, e.g. by establishing covalent or complex bonds, in order to improve the pigment properties, e.g. dispersibility or rheology]
68/20 . . . [characterised by the process features]
68/22 . . . [Acid treatment (for acid pasting C09B 67/0015)]
68/24 . . . [Azo-coupling]
68/26 . . . [Oxidation]
68/28 . . . [Complexing]
68/40 . . . [characterised by the chemical nature of the attached groups]
68/41 . . . [Polymers attached to the pigment surface (C09B 68/444, C09B 68/446 take precedence)]
68/42 . . . [Ionic groups, e.g. free acid]
68/423 . . . [Cationic groups]
68/4235 . . . [Ammonium groups or derivatives thereof]
68/425 . . . [Anionic groups]
68/4253 . . . [Sulfonic acid groups]
68/4257 . . . [Carboxylic acid groups]
68/427 . . . [Ionic groups and at least one triazine ring present at the same time]
68/44 . . . [Non-ionic groups, e.g. halogen, OH or SH]
Lakes; Mordants; Dyestuff preparations

68/441 . . . [Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters]
68/443 . . . [Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups]
68/444 . . . [Polyether]
68/446 . . . [Amines or polyamines, e.g. aminopropyl, 1,3,4-triamino-pentyl or polyethylene imine]
68/447 . . . [Alkyl groups]
68/4475 . . . [Substituted alkyl groups]
68/449 . . . [Unsaturated carbohydrates groups, e.g. alkenyl or alkiny]n
68/4495 . . . [Substituted unsaturated carbohydrates groups]
68/46 . . . [Aromatic cyclic groups]
68/463 . . . [Substituted aromatic groups]
68/467 . . . [Heteroaromatic groups]
68/4673 . . . [5-Membered rings]
68/4677 . . . [6-Membered rings]
68/46775 . . . [Triazine (C09B 68/427 takes precedence)]
69/00 . . . [Non-aromatic cyclic groups]
69/005 . . . [Substituted non-aromatic cyclic groups]

69/00 Dyes not provided for by a single group of this subclass

69/001 . . . [Dyes containing an onium group attached to the dye skeleton via a bridge]
69/002 . . . [Hydrazinium group]
69/004 . . . [Sulfonium group]
69/005 . . . [Isothiuronium group]
69/007 . . . [Dyestuffs containing phosphonic or phosphinic acid groups and derivatives]
69/008 . . . [Dyes containing a substituent, which contains a silicon atom]
69/02 . . . Dyestuff salts, e.g. salts of acid dyes with basic dyes (for Na, K or NH₄⁺ salts or for chlorides, sulfates or chlorozincates, see the relevant dye groups)
69/04 . . . of anionic dyes with nitrogen containing compounds
69/045 . . . [of anionic azo dyes]
69/06 . . . of cationic dyes with organic acids {or with inorganic complex acids}
69/065 . . . [of cationic azo dyes]
69/08 . . . Dyes containing a splittable water solubilising group [(dyes containing an onium group attached to the dye molecule via a bridge are to be considered as cationic dyes and are classified with the respective dyes such as C09B 44/02 - C09B 44/08, C09B 69/001 - C09B 69/005)]
69/10 . . . Polymeric dyes; Reaction products of dyes with monomers or with macromolecular compounds [(addition products of alkylene oxide to dyes, C09B 69/00; dyeing with polymeric dyes D06P 1/0056)]
69/101 . . . [containing an anthracene dye]
69/102 . . . [containing a perylene dye]
69/103 . . . [containing a diaryl- or triarylmethane dye]
69/104 . . . [containing an indole dye, including melanine derivates]
69/105 . . . [containing a methine or polymethine dye]
69/106 . . . [containing an azo dye]
69/107 . . . [containing an azomethine dye]
69/108 . . . [containing a phthalocyanine dye]