Suffixes and prefixes for some important characteristic groups in substitutive nomenclature

Functional Group	Condensed Formula	Prefix	Suffix
Acid halides	–CO–halogen –C(=O)–halogen	halocarbonyl- ---	-carbonyl halide -oyl halide
Alcoholates, Phenolates	$-O^-$	oxido-	-olate
Alcohols, Phenols	–OH	hydroxy-	-ol
Aldehydes	–CHO –C(=O)H	formyl- oxo-	-carbaldehyde -al
Amides	$-CONH_2$ $-C(=O)NH_2$	carbamoyl- ---	-carboxamide -amide
Amines	$-NH_2$	amino-	-amine
Carboxylates	$-COO^-$ or $-CO_2^-$ $-C(=O)O^-$	carboxylato- ---	-carboxylate -oate
Carboxylic acids	–COOH or $-CO_2H$ –C(=O)OH	carboxy- ---	-carboxylic acid -oic acid
Ethers	–OR	(R)-oxy-	---
Esters (of carboxylic acids)	–COOR or $-CO_2R$ –C(=O)OR	(R)-oxycarbonyl- ---	(R)...carboxylate (R)...oate
Hydroperoxides	–OOH	hydroperoxy-	---
Ketones	RCOR RC(=O)R	oxo- ---	-one ---
Nitriles	–CN –C≡N	cyano- ---	-carbonitrile -nitrile
Peroxides	–OOR	(R)-peroxy-	---
Salts (of carboxylic acids)	$-COO^-M^+$ or $-CO_2^-M^+$ $-C(=O)O^-M^+$	--- ---	(cation) ...carboxylate (cation) ...oate
Sulfides	–SR	(R)-sulfanyl-	---
Sulfonates	$-SO_2O^-$ or $-SO_3^-$	sulfonato-	-sulfonate
Sulfonic acid	$-SO_2OH$ of $-SO_3H$	sulfo-	-sulfonic acid
Thiolates	$-S^-$	sulfido-	-thiolate
Thiols	–SH	sulfanyl-	-thiol

Basic numerical terms (multiplying affixes)

Number	Numerical term	Number	Numerical term
1	mono-	90	nonaconta-
2	di-	100	hecta-
3	tri-	200	dicta-
4	tetra-	300	tricta-
5	penta-	400	tetracta-
6	hexa-	500	pentacta-
7	hepta-	600	hexacta-
8	octa-	700	heptacta-
9	nona-	800	octacta-
10	deca-	900	nonacta-
11	undeca-	1000	kilia-
12	dodeca-	2000	dilia-
20	icosa-	3000	trilia-
30	triaconta-	4000	tetralia-
40	tetraconta-	5000	pentalia-
50	pentaconta-	6000	hexalia-
60	hexaconta-	7000	heptalia-
70	heptaconta-	8000	octalia-
80	octaconta-	9000	nonalia-

General classes of compounds in decreasing order of priority for choosing and naming a principal characteristic group (the official list)

1 Carboxylic Acids
2 Anhydrides
3 Esters
4 Acid halides
5 Amides
6 Nitriles
7 Aldehydes
8 Ketones
9 Alcohols and Phenols
10 Hydroperoxides
11 Amines
12 Hydrazines, Phosphanes, etc.
13 Alkynes (only priority in numbering – follows “en-yne” rule)
14 Alkenes
15 Ethers followed by Sulfides
16 Peroxides followed by Disulfides