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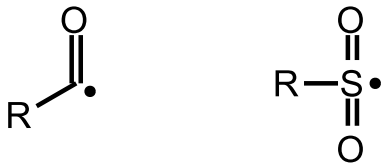
acyl species

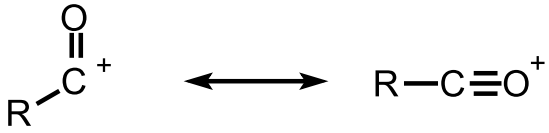
Also contains definitions of: acyl anions, acyl cations, acyl radicals, acylium ions

Acyl intermediates include acyl anions, acyl radicals and acyl cations (synonym acylium ions) which are formally derived from oxoacids $R_kE(=O)_l(OH)_m$ ($l \neq 0$) by removal of a hydroxyl cation HO^+ , a hydroxyl radical $HO^{\cdot}$ or a hydroxyl anion HO^- , respectively, and replacement analogues of such intermediates. Acyl anions, radicals and cations can formally be represented by canonical forms having a negative charge, an unpaired electron or a positive charge on the acid-generating element of the oxoacid. Acyl anions. E.g.

Acyl radicals. E.g.



Acyl cations. E.g.



See also: acyl groups

Source:
PAC, 1995, *67*, 1307 *(Glossary of class names of organic compounds and reactivity intermediates based on structure (IUPAC Recommendations 1995))* on page 1312
PAC, 1993, *65*, 1357 *(Revised nomenclature for radicals, ions, radical ions and related species (IUPAC Recommendations 1993))* on page 1357

