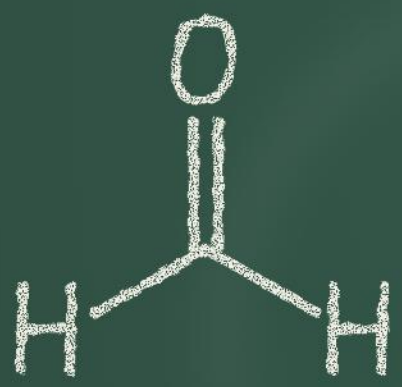
PrayogX · Chemistry

PRAYOGX

Aldehyde or Ketone?



methanal



propanone

both have C=O

aldehyde ketone

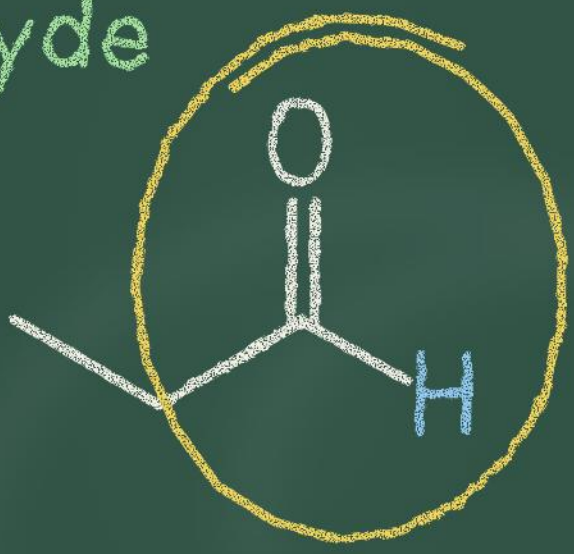
why different?

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PRAYOGX

Aldehyde or Ketone?

aldehyde



C=O at the END
(with an H)

ketone



C=O in the MIDDLE
carbon on both sides

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Aldehyde or Ketone?

IUPAC: aldehydes

alkane − e + al

$HCHO$	methanal
CH_3CHO	ethanal
CH_3CH_2CHO	propanal

the CHO carbon is always C-1

so no number is written

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PRAYOGX

Aldehyde or Ketone?

IUPAC: ketones

alkane − e + one

CH_3COCH_3	propanone
$CH_3COCH_2CH_3$	butanone

longer chains: give the position

$CH_3COCH_2CH_2CH_3$	pentan-2-one
$CH_3CH_2COCH_2CH_3$	pentan-3-one

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Aldehyde or Ketone?

common names

$HCHO$	formaldehyde
CH_3CHO	acetaldehyde

ketones: name both groups



dimethyl ketone

= acetone

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PRAYOGX

Aldehyde or Ketone?

remember

C=O at the end	C=O in the middle
aldehyde	ketone
-al	-one



smallest ketone: propanone (3 C)