



>>Entry Name: Chromic acid (H₂CrO₄)

Synonym(s): Metachromic acid

CAS Registry Number: 7738-94-5

Extra CAS Registry Numbers(s): 11115-74-5

H₂CrO₄

Molecular Formula: CrH₂O₄

Molecular Weight: 118.01

Accurate Mass: 117.935819

Percentage Composition: Cr 44.06%; H 1.71%; O 54.23%

General Statement: Usually known as aq. CrO₃; see also Chromate(VI) (CrO₄²⁽⁻⁾) [HWX96-M](#) and Chromic acid (H₂Cr₂O₇) [HWZ14-W](#)

Source/Synthesis: Obt. when CrO₃ dissolves in H₂O

Use/Importance: Widely used in org. synth., in *Jones reagent* for oxidation

Physical Description: Known in soln. Main species in soln. at pH < 1

pKa Value: pK_{a1} 0.74; pK_{a2} 6.49 (25°) pK_{a1} -0.7; pK_{a2} 5.9 (25°)

Other Data: Converted to dichromate in acid

References:

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