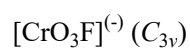




>>Entry Name: **Fluorotrioxochromate(VI)(1-)**, 11Cl, 10Cl, 9Cl
Synonym(s): Trioxofluorochromate(VI)(1-). Fluorochromate(1-)

CAS Registry Number: 17185-83-0
Related CAS Registry Numbers(s): 83042-08-4



Molecular Formula: $\text{CrFO}_3^{(-)}$
Molecular Weight: 118.993
Accurate Mass: 118.923657
Percentage Composition: Cr 43.70%; F 15.97%; O 40.34%
General Statement: For chloro analogue see Chlorotrioxochromate(VI)(1-) [HXL83-F](#). Bromo and iodo analogues dec.
Use/Importance: Oxidising agent
Other Data: Readily hydrol. Many salts known

>>Derivative: K salt

CAS Registry Number: 33637-02-4
Molecular Formula: CrFKO_3
Molecular Weight: 158.091
Accurate Mass: 157.887364
Percentage Composition: Cr 32.89%; F 12.02%; K 24.73%; O 30.36%
Physical Description: Red cryst.
Solubility: Sol. H_2O , etches glass vessels
Other Data: Rb and Cs salts similar

>>Derivative: NH_4 salt

CAS Registry Number: 58501-09-0
Physical Description: Red cryst.

>>Derivative: Pyridinium salt
Synonym(s): Pyridinium fluorochromate

CAS Registry Number: 83042-08-4
Use/Importance: Selective oxidising agent used in org. synth.
Physical Description: Orange cryst.
Melting Point: Mp 106-108°

>>Derivative: Isoquinolinium salt

CAS Registry Number: 143440-93-1

Source/Synthesis: Synth. from isoquinoline, aq. HF and CrO_3
Use/Importance: Oxidises primary and secondary alcohols to aldehydes and ketones; oxidises anthracene and phenanthrene to the corresp. quinones
Physical Description: Bright orange cryst. (hot H_2O)
Melting Point: Mp 171-172°
Solubility: Sol. H_2O , DMF, DMSO, Me_2CO ; less sol. CH_2Cl_2 ; spar. sol. C_6H_6 , CCl_4 , CHCl_3 , hexane

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