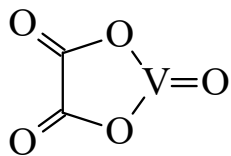




>>Entry Name: (Oxalato)oxovanadium(IV)

Synonym(s): [Ethanedioato(2-)-O,O']oxovanadium(IV), 11Cl. Vanadyl oxalate



CAS Registry Number: 15500-04-6

Molecular Formula: C₂O₅V

Molecular Weight: 154.961

Accurate Mass: 154.918537

Percentage Composition: C 15.50%; O 51.62%; V 32.87%

Source/Synthesis: Synth. from V₂O₅ and H₂C₂O₄ in H₂O, or from V₂O₅ and H₂C₂O₄ in AcOH

Use/Importance: Used in various catalytic processes including hydrocracking and EtOH to butadiene conversion. Also used to make V- containing metallurgical pellets

Physical Description: Blue solid

>>Derivative: Monohydrate

CAS Registry Number: 39237-68-8

Molecular Formula: C₂H₂O₆V

Molecular Weight: 172.976

Percentage Composition: C 13.89%; H 1.17%; O 55.50%; V 29.45%

Source/Synthesis: Synth. from V₂O₅ and H₂C₂O₄·2H₂O in AcOH at 108-118°

>>Derivative: Dihydrate

CAS Registry Number: 39237-67-7

Molecular Formula: C₂H₄O₇V

Molecular Weight: 190.991

Percentage Composition: C 12.58%; H 2.11%; O 58.64%; V 26.67%

Source/Synthesis: Synth. analogously to monohydrate

Other Data: A tetrahydrate is also known

References:

U.S. Pat., 1972, 3 689 515; CA, **78**, 15533k, (synth, anhyd form, hydrates)

Netherlands Pat., 1976, 74 11 144; CA, **85**, 149641x, (use)

Udupa, M.R., *Thermochim. Acta*, 1981, **51**, 169, (thermal dec, dihydrate)

Japan. Pat., 1983, 58 59 928; CA, **99**, 54864e, (use)

Sasaki, Y. et al., *Sekiyu Gakkaishi*, 1983, **26**, 472; CA, **100**, 88291n, (synth, use)