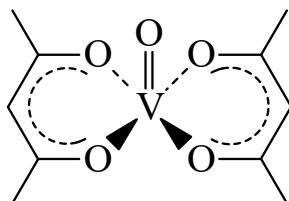




>>>**Entry Name:** Oxobis(2,4-pentanedionato-*O,O'*)vanadium(*IV*), 11Cl

Synonym(s): Bis(acetylacetonato)oxovanadium(*IV*). Vanadyl acetylacetonate. VO(acac)₂



CAS Registry Number: 3153-26-2

Related CAS Registry Numbers(s): 14284-84-5 58271-97-9

Molecular Formula: C₁₀H₁₄O₅V

Molecular Weight: 265.159

Accurate Mass: 265.028087

Percentage Composition: C 45.30%; H 5.32%; O 30.17%; V 19.21%

Source/Synthesis: Synth. by refluxing V₂O₅ and 2,4-pentanedione

Use/Importance: Commercially available. Catalyst component for a very wide range of reactions, in particular oxidations. Has also been widely used for uv-vis and epr spectral studies

Physical Description: Blue cryst.

Melting Point: Mp 256-259°

Solubility: Insol. H₂O; sol. EtOH, C₆H₆, CHCl₃, CH₂Cl₂, MeOH

Other Data: Readily forms complexes esp. with N-donors. ΔH_f° (per V) -1366.6 kJ mol⁻¹

Aldrich: 21287-3

Fluka: 94735

Other: Gelest AKV900

>>>**Derivative:** Py complex

Synonym(s): (Acetylacetonato)oxo(pyridine)vanadium(*IV*)

CAS Registry Number: 24263-31-8

Source/Synthesis: Synth. by dissolving VO(acac)₂ in Py

Physical Description: Green cryst.

Solubility: Sol. org. solvs.; insol. H₂O

Other Data: Ir ν_{VO} 995 cm⁻¹

>>>**Derivative:** Aniline complex

Synonym(s): Bis(acetylacetonato)(aniline)oxovanadium(*IV*). (Benzenamine)oxobis(2,4-pentanedionato-*O,O'*)vanadium(*IV*), 11Cl

CAS Registry Number: 99021-29-1

Physical Description: No phys. props. reported

>>>**Derivative:** Ethanolamine complex

Synonym(s): (2-Aminoethanol-*N*)oxobis(2,4-pentanedionato-*O,O'*)vanadium(*IV*), 11Cl

CAS Registry Number: 99021-28-0

>>>**Derivative:** Bis(trimethylsilyl) peroxide complex

Source/Synthesis: Generated from VO(acac)₂ and Me₃SiOOSiMe₃ in CH₂Cl₂ and used *in situ*

Use/Importance: Catalyses isom. of allylic, allenic alcohols

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