



>>Entry Name: Lithium acetate

Synonym(s): Acetic acid, lithium salt, 8Cl. Ethanoic acid, lithium salt. Quilonum

CAS Registry Number: 546-89-4

LiOAc

Molecular Formula: $C_2H_3LiO_2$

Molecular Weight: 65.985

Accurate Mass: 66.029308

Percentage Composition: C 36.40%; H 4.58%; Li 10.52%; O 48.49%

Source/Synthesis: Prepd. by slow neutralisation of Li_2CO_3 with AcOH in aq. soln.; cryst. as the dihydrate

Use/Importance: Antidepressant; used in the treatment of manic depression

Physical Description: Dec. on heating with formation of Li_2O

Melting Point: Mp 286°

Hazard & Toxicity: LD_{Lo} (mus, orl) 1500 mg/kg

Fluka: 62395

>>Derivative: Dihydrate

Synonym(s): Quilonorm

CAS Registry Number: 6108-17-4

Molecular Formula: $C_2H_7LiO_4$

Molecular Weight: 102.016

Accurate Mass: 102.050438

Percentage Composition: C 23.55%; H 6.92%; Li 6.80%; O 62.73%

Use/Importance: Commercially available

Physical Description: White orthorhombic cryst. Dec. on heating by H_2O loss

Solubility: V. sol. H_2O (300 g per 100 cm^3 at 15°); v. sol. EtOH

Aldrich: 45018-9

Sigma: L6883

References:

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Akitt, J.W. *et al.*, *Spec. Publ. - Chem. Soc.*, 1967, 199, (Li-7 nmr)

Cadene, M., *J. Mol. Spectrosc.*, 1968, **2**, 193, (ir, cryst struct, dihydrate)

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