



>>Entry Name: Lithium phosphate (Li(H₂PO₄))

Synonym(s): Monolithium phosphate, 9Cl, 8Cl. Lithium dihydrogenphosphate

CAS Registry Number: 13453-80-0

Li(H₂PO₄)

Molecular Formula: H₂LiO₄P

Molecular Weight: 103.928

Accurate Mass: 103.985075

Percentage Composition: H 1.94%; Li 6.68%; O 61.58%; P 29.80%

195.7, P-O 154.4 pm, OPO 109.4°

Source/Synthesis: Synth. from H₃PO₄ + LiOH; or from H₃PO₄ + Li₂CO₃

Physical Description: Small, colourless, hygroscopic, vitreous cryst.

Other Data: Piezoelectric

Aldrich: 44268-2

References:

Remy, F. *et al.*, *Bull. Soc. Chim. Fr.*, 1967, 1699, (*synth*)

Catti, M. *et al.*, *Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.*, 1976, **146**, 215, (*cryst struct, rev*)

Šušić, M.V. *et al.*, *Solid State Ionics*, 1981, **2**, 309, (*ir, electrical props*)

Galogaza, V.M. *et al.*, *J. Therm. Anal.*, 1986, **31**, 897, (*props*)