



>>Entry Name: Potassium hydrogen iodate(V) (KH(IO₃)₂)

Synonym(s): Iodic acid, potassium salt (2:1), 8Cl. Potassium diiodate. Potassium biiodate

CAS Registry Number: 13455-24-8

KH(IO₃)₂ or KIO₃.HIO₃

Molecular Formula: H₂KO₆

Molecular Weight: 389.912

Accurate Mass: 389.749968

Percentage Composition: H 0.26%; I 65.09%; K 10.03%; O 24.62%

Source/Synthesis: Cryst. from aq. soln. containing KIO₃ and HIO₃ in equimolar proportions. In the presence of different acids, 5 different cryst. modifications can be formed

Use/Importance: Commercially available

Physical Description: Colourless cryst. Dec. on heating with loss of H₂O and then I₂O₅ and O₂ to give KI as final product

Solubility: Sl. sol. H₂O (1.3 g per 100 cm³ at 15°); insol. EtOH

Other Data: Piezoelectric

Hazard & Toxicity: Oxidiser, corrosive

Aldrich: 22852-4

Fluka: 60350

References:

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