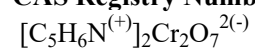




>>Entry Name: Pyridinium dichromate

Synonym(s): Pyridine compd. with chromic acid (H₂Cr₂O₇) (2:1), 9Cl. PDC

CAS Registry Number: 20039-37-6



Molecular Formula: C₁₀H₁₂Cr₂N₂O₇

Molecular Weight: 376.206

Accurate Mass: 375.945471

Percentage Composition: C 31.93%; H 3.21%; Cr 27.64%; N 7.45%; O 29.77%

Use/Importance: Oxidising agent for alcohols, etc.

Physical Description: Bright orange solid

Melting Point: Mp 144-146°

Solubility: Sol. H₂O, DMF, DMSO; spar. sol. CH₂Cl₂, Me₂CO; insol. Et₂O, toluene

Hazard & Toxicity: There has been a report of an explosion during its synthesis

Aldrich: 21469-8

Fluka: 82810

Sigma: P3521

References:

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Salmon, J., *Chem. Ind. (London)*, 1982, 616, (haz)

Gili, P., *Rev. Chim. Miner.*, 1984, **21**, 171, (synth, ir, pmr, uv, cryst struct)

Luzzio, F.A. *et al.*, *Org. Prep. Proced. Int.*, 1988, **20**, 533, (use, rev)

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