



LKT Laboratories, Inc.

Povidone Iodine

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Product Information

Product ID P5885

CAS No. 25655-41-8

Chemical Name 1-Ethenyl-2-pyrrolidinone homopolymer compound with iodine

Synonym Betadine, Isodine, Ultradine

Formula $C_6H_9I_2NO$

Formula Wt. 364.94

Melting Point $-300^{\circ}C$

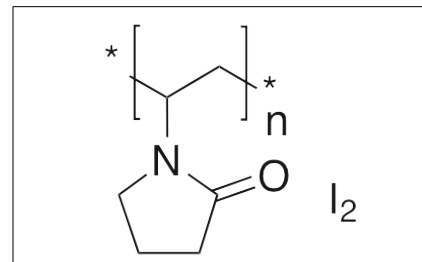
Purity $\geq 98\%$

Solubility Soluble in water and alcohol. Insoluble in most organic solvents

Store Temp Ambient

Ship Temp Ambient

Description Povidone (polyvinyl pyrrolidone polymer) is an antibacterial compound used as a disinfectant in surgical settings. When combined with iodine, povidone exhibits anticancer activity, inhibiting proliferation and inducing necrotic cell death in mesothelioma cells. Povidone may induce depurination and cleavage of DNA. This compound is also occasionally used as a stabilizer in drug formulations.



Bulk quantities available upon request

Product ID	Size
P5885	50 g
P5885	100 g

References Fiorelli A, Pentimalli F, D'Urso V, et al. Antineoplastic activity of povidone-iodine on different mesothelioma cell lines: results of in vitro study. *Eur J Cardiothorac Surg.* 2014 Jun;45(6):993-1000. PMID: 24394552.

Song M, Zeng L, Hong X, et al. Polyvinyl pyrrolidone promotes DNA cleavage by a ROS-independent and depurination mechanism. *Environ Sci Technol.* 2013 Mar 19;47(6):2886-91. PMID: 23425130.

Haznar-Garbacz D, Garbacz G, Eisenächer F, et al. A novel liquefied gas based oral controlled release drug delivery system for liquid drug formulations. *Eur J Pharm Biopharm.* 2012 Jun;81(2):334-8. PMID: 22426133.

Major T Sr, Major M, Bognár C, et al. Clinico-bacteriological examination of Betadine skin disinfectant fluid and liquid soap in hospitalized patients and hospital employees. *Ther Hung.* 1993;41(3):114-8. PMID: 8202868.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.