

Product Profile

Identification

Product Name: **Poly(N-vinyl pyrrolidone), α -mesylate-terminated**

Synonym(s): **PVP PVP, Polyvidone, Povidone.**

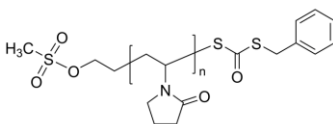
Linear Formula: (C₆H₉NO)_nMesylate

CAS: 9003-39-8

Polyvinylpyrrolidone (PVP), also commonly called **polyvidone** or **povidone**, is a water-soluble polymer available in a range of molecular weights and can be selected according to the desired application properties.

Product Lot Number: P44858-NVP-Mesylate

Product Chemical Architecture:

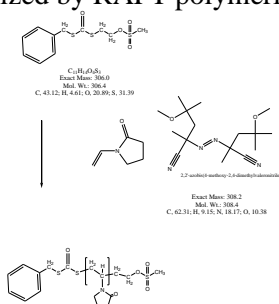


Composition:

Mn (g/mole)	9,000
MW (g/mole)	15,000
Mw/Mn	1.6
dn/dc (mL/g)	Temperature: 30oC, dn/dc = 0.175 ml/gram.

Method of Synthesis

Poly(N-vinyl pyrrolidinone) was synthesized by RAFT polymerization.



Solubility in different

DCM	√	Ethanol	√
CHCl ₃	√	Ethylene glycol	√
Water	√	DMSO	√

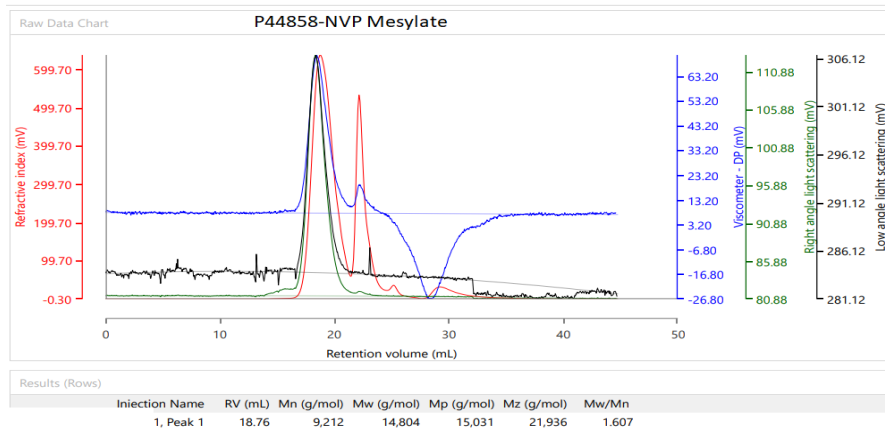
Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC- Profile:

Molecular weights were determined by Malvern OmniSec Reveal & Resolve GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LALS 7°) and two columns (A600M General Mixed 300×7.5 mm, Viscotek). 0.25 M NaNO₃ + 0.01M NaH₂PO₄ (PH=7) in water was the eluent. The flow rate was 1.0 ml/min.

Polymer Source

Malvern Panalytical



B. HNMR spectrum of the Sample:

