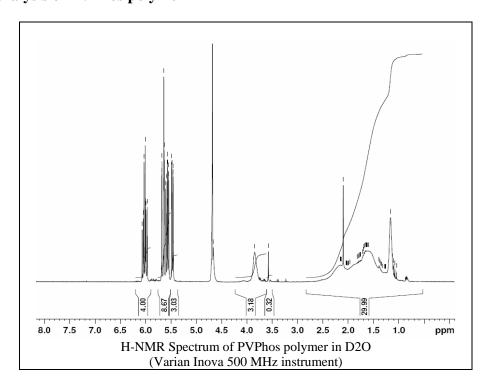
## No. AO03 Certificate of Analysis

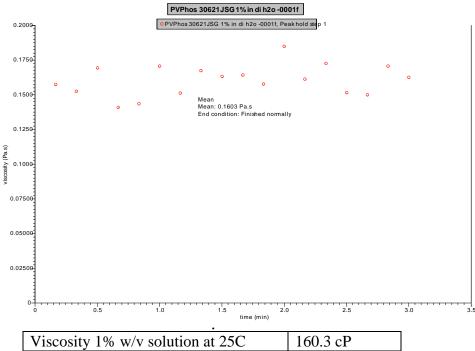


Product Name: Poly(vinyl phosphonate) sodium salt (Viscosity 50-250 cP 1% in water at 60RPM) (Lot#: 30621JSG)REV:A

• H-NMR analysis of PVPhos polymer



## Viscosity analysis of PVPhos polymer



Analysis Method: 1% solution in distilled water placed in AR550 rheometer with  $2^{\circ}$  60mm plate temperature held at 25C rotated at 60RPM 6 measurements made every 10 seconds over the course of 3 minutes. Listed value is average  $\pm$  standard deviation.

Structure of PVPhos polymer

ROPPOR R = Na+ or H
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