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10304 - Column Application Note Characterization of Poly(DADMAC)



Polydiallyldimethylammonium chloride, or shortened poly(DADMAC) is a homopolymer of diallyldimethylammonium chloride (DADMAC). It is used for controlling disturbing substances in the papermaking process, in the short circulation of paper mills to enhance retention and dewatering, to improve the efficiency of disk filters and flotators, and for cationization of fillers to provide maximal filler retention. Poly(DADMAC) can also be used as a flocculant to improve soap separation process in the evaporation plant of kraft pulp mills thus contributing to higher tall oil yield.

Experimental Setup

Mobile Phase: Stationary Phase: Flow rate [mL/min]: Temperature [°C]: Detection: Calibration: Data processing: Water Sodium chloride 0.1M Trifluoroacetic acid 0.1Vol% PSS NOVEMA Max 0,50 25 GPC1200 Refractive index Kit Poly(2-vinylpyridine) PSS WinGPC



Recommandations for Sample Concentration

narrow PDI M 100 Da - 10 000 Da: M 10 000 Da - 1 000 000 Da: M > 1 000 000 Da: broad PDI (>1.5) all molar masses: Injection volume [µL]:

Suitable Columns

low molecular weights: medium molecular weights: high molecular weights: ultrahigh molecular weights: 2 g/L 1-2 g/L 0.5 g/L or less 3.0 - 5.0 g/L 20

P/N 212-0011 (set of 3) OR nma083010lis (1 linear) P/N 212-0012 (set of 3) OR nma083010lim (1 linear) P/N 212-0003 (set of 3) OR nma083010lxl (1 linear) P/N 212-0004 (set of 3) OR nma083010luh



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DE22689335

5994-6316EN July 1, 2023