

Macroporous Weak Base Anion Exchange Resin

Purolite A109 is a macroporous-type anion exchange resin with a polystyrene matrix. The high porosity ensures excellent removal of organic matter from both aqueous and organic solutions in conjunction with its reversible removal upon regeneration. The pure weak base primary functionality results in high capacity for certain specific anions and the high regeneration efficiency. Substantially lower levels of sodium hydroxide are often required, compared with a resin containing more strongly basic groups. Purolite A109 has excellent chemical and thermal stability, resistance to attrition and osmotic shock. These properties make the resin ideal for use in the pharmaceutical, chemical, and food processing industries, for the neutralisation of strong acids and for other processes. Purolite A109 is available in alternative particle size ranges.

Basic Features:

Application	Demineralization
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Primary Amine
Ionic form as shipped	Free Base

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Free Base	1 eq/l
Total Capacity (min.)	Free Base	21.83 kGr/ft ³
Moisture Retention	Free Base	58-65 %
SBC		0-5 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	FB → Cl ⁻	25 %
Specific Gravity		1.05 g/ml
Shipping Weight (approx.)		660-690 g/l
Shipping Weight (approx.)		41.2-43.1 lbs/ft ³
Temp Limit	OH ⁻	60 °C
Temp Limit	OH ⁻	140 °F
Temp Limit	Cl ⁻	100 °C
Temp Limit	Cl ⁻	212 °F
pH Limits		0-14 (Stability)

USA
 Telephone: (1) 610-668-9090
 Fax: (1) 610-668-8139
 Email: info@puroliteusa.com

Europe
 Telephone: +44 1443 229334
 Fax: +44 1443 227073
 Email: sales@purolite.com

Asia Pacific
 Telephone: +86 571 876 31385
 Fax: +86 571 876 31385
 Email: pultalan@purolitechina.com

pH Limits H⁺ 0-8 (Operating)

USA
Telephone: (1) 610-668-9090
Fax: (1) 610-668-8139
Email: info@puroliteusa.com

Europe
Telephone: +44 1443 229334
Fax: +44 1443 227073
Email: sales@purolite.com

Asia Pacific
Telephone: +86 571 876 31385
Fax: +86 571 876 31385
Email: pultalan@purolitechina.com