

# AzaPure™

## Physical and Chemical properties

- Color: Azadirachtin Technical has a brownish yellow color
- Physical state: Azadirachtin Technical is a powder
- Odour: Azadirachtin Technical has a characteristic Neem odour (similar to garlic)
- Solubility: Azadirachtin Technical is soluble in water @ 0.25g/l @ 25 °C. It is soluble in ethanol (260g/L @ 25 °C) and methanol (200g/L@ 25 °C).
- Octanol-water partition coefficient: Octanol-water partition coefficient of Azadirachtin Technical at 25°C P: 12.89. Log P: 1.11
- pH: Azadirachtin Technical (1% suspension in water) has a pH of 4.5 at 25 °C.
- Bulk density: Bulk density (@25°C) of product is 0.17 g/mL
- Melting point/Melting range: Melting point is 130°C
- Stability: Compound is stable under storage condition in contact with metal and metal ion.
- Miscibility: The product is immiscible in mineral oil.
- Particle size: The particle distribution in the Azadirachtin Technical is between the ranges of 3.27 – 104.7 microns.
- UV/Visible Absorption: UV max (methanol) is 215 nm
- Vapor pressure: Vapor pressure of Azadirachtin Technical at 25°C (m Pa)  $3.60 \times 10^{-06}$
- Storage stability: 2 years
- Solubility in organic solvents: Solubility of Azadirachtin Technical in methanol @ 25 °C is 200g/l , in ethanol is 260g/l, in toluene is 8g/l, in ethyl acetate is 730g/l and in acetonitrile is 860g/l
- Corrosion characteristics: Non corrosive on packing material
- Oxidation/Reduction- Chemical incompatibility: None of the components of Azadirachtin Technical exhibited any particular ability to act as an oxidant or reductant
- Flammability: The product is not flammable