



Caffeine

Other Names

(theine; methyltheobromine; 1,3,7-trimethylxanthine)

Description

Derivation: By extraction of coffee beans, tea leaves, or kola nuts; also synthetically. Much of the caffeine of commerce is a by-product of decaffeinated coffee manufacture. Method of purification: recrystallization

Properties

- solution neutral to litmus
- bitter taste
- very slightly soluble in ether
- odorless
- slightly soluble in water and alcohol
- soluble in chloroform
- Mp 236.8C
- loses water at 80C
- efflorescent in air
- an alkaloid
- White silky crystals

Directions for use

Beverages, medicine.

Hazard Warning

One grain or more is toxic, 200 micrograms per mL has been found to inhibit activity of the enzyme DNA polymerase. Use in soft drinks not to exceed 0.02%. See MSDS

Dosage

None

Packaging

20 kg & 25 kg cartons or drums