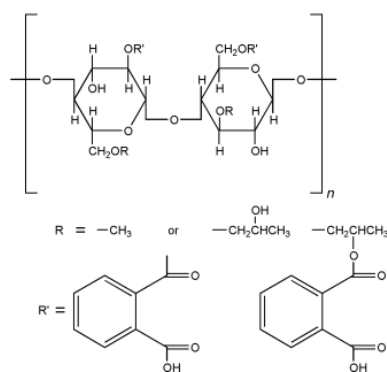


2.2.7 Hydroxypropyl methyl cellulose Phthalate (HPMCP) ⁹³



Structural formula

Functional Category: Coating agent; extended release agent

Applications: Tablet enteric coating agent, film-coating, and as a matrix for use in extended-release tablet formulations

Description : Hypromellose phthalate occurs as white to slightly off-white, free-flowing flakes or as a granular powder. It is tasteless and odorless or slightly acidic odor.

Glass transition temperature: 133–137°C.

Melting point (MP): 150°C.

Solubility: Readily soluble in a mixture of acetone and methyl or ethyl alcohol (1 : 1), in a mixture of methyl alcohol and dichloromethane (1 : 1), and in aqueous alkali. It is insoluble in water and dehydrated alcohol and slightly soluble in acetone.

Viscosity: Wide range viscosity grades are available in the market.

Stability and Storage Conditions: Hypromellose phthalate is chemically and physically stable at ambient temperature for at least 3–4 years and for 2–3 months at 40°C and 75% relative humidity. It is stable on exposure to UV light for up to 3 months at 25°C and 70% relative humidity.