

## Phenobarbital sodium (Cas No 57-30-7)

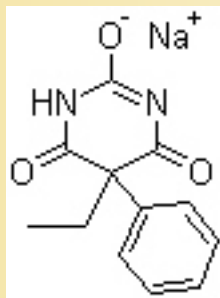


Phenobarbital sodium

Molecular Formula C<sub>12</sub>H<sub>11</sub>N<sub>2</sub>NaO<sub>3</sub>

Molecular Weight 254.22

CAS Registry Number 57-30-7



### Chemistry

Phenobarbital, a barbiturate, occurs as white, glistening, odorless, small crystals or as a white, crystalline powder with a melting point of 174°-178°C and a pKa of 7.41. One gram is soluble in approximately 1000 ml of water, and 10 ml of alcohol. Compared to other barbiturates it has a low lipid solubility.

Phenobarbital sodium occurs as bitter-tasting, white, odorless, flaky crystals or crystalline granules or powder. It is very soluble in water, soluble in alcohol, and freely soluble in propylene glycol. The injectable product has a pH of 8.5-10.5.