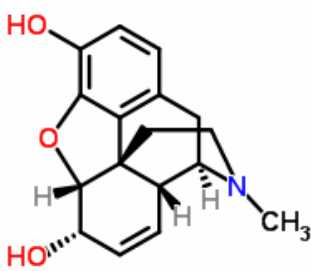


Name	<b>MORPHINE</b>
Structure	
Systematic name	1S,5R,13R,14S,17R)-4-Methyl-12-oxa-4-azapentacyclo[9.6.1.01,13.05,17.07,18]octadeca-7(18),8,10,15-tetraene-10,14-diol
Formula	C <sub>17</sub> H <sub>19</sub> NO <sub>3</sub>
MW	285.3377
Monoisotopic mass	285.136493479
Mp	253-254°C dec
H bond acceptors	4
H bond donors	2
Acid pKa	10.26 (phenol)
Basic pKa	9.12
ACD Log D pH 5.5	-1.80
ACD Log D pH 7.4	0.043
Solubility	50 mg/ml in water (hydrochloride)
LD50	461 mg/Kg rat p.o.
Therapeutic cat	opioid analgesic
ATC	<b>N02AA01</b> N NERVOUS SYSTEM N02 ANALGESICS N02A OPIOIDS N02AA Natural opium alkaloids
Receptors	OP <sub>3</sub>

Nomi commerciali (IT)	
MORFINA CL, MORFINA CLORIDR, MORFINA SOLFATO	A, RNR, iniettabile, compresse, sciroppo