

NAME OF IMPURITY	ADDITIONAL DESCRIPTION	API	CAS #
(2S)-2-{17-(but-3-enyl)-4,5 α-epoxy-3-hydroxy-6-methoxy-6 α,14-ethano-14α-morphinan-7 α-yl}-3,3-dimethylbutan-2ol.	Buprenorphine Impurity- A USP or EP impurity-A	Buprenorphine	457071-73-7
4,5α-epoxy-7α-[(1S)-1-hydroxy-1,2,2- trimethylpropyl]-3,6-dimethoxy-6α, 14-ethano-14α-morphinan-17-carbonitrile; N-Cyano-3-O-methyl Norbuprenorphine	Buprenorphine EP impurity-C	Buprenorphine	16614-60-1
[5α,7α(S)]-17-(cyclopropylmethyl)- α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dih dro-3,6-dimethoxy-α-methyl-6,14-ethenom orphinan-7-methanol	Buprenorphine EP impurity-D	Buprenorphine	16524-65-5
(2S)-2-{17-butyl-4,5 α-epoxy-3-hydroxy-6-methoxy-6 α,14-ethano-14α-morphinan-7 α-yl}-3,3-dimethylbutan-2ol.	Buprenorphine EP impurity -H	Buprenorphine	90387-35-2
(2S)-2-{17-(Cyclopropyl methyl)-4,5 α-epoxy-3-hydroxy-6-methoxy-6 α,14-etheno-14α-morphinan-7 α-yl}-3,3-dimethylbutan-2ol.	Buprenorphine EP impurity-J or USP impurity J	Buprenorphine	155203-05-7
5-nitro isophthalic acid	Impurity -A USP (Or)As per EP impurity -O	Glycopyrronium bromide	618-882
Glucopyrrolate base	Glycopyrrolate impurity- B as per USP	Glycopyrronium bromide	13118-10-0
Cyclopentylmandelic acid and enantiomer	Glycopyrrolate impurity -C as per USP	Glycopyrronium bromide	427-49-6
Methyl(2RS)-2-Cyclopentyl -2-hydroxy-2-phenyl acetate and enantiomer	Glycopyrrolate impurity- L as per EP	Glycopyrronium bromide	19833-96-6
4-(diethylamino)but-2ynyl 2-hydroxy -2,2-diphenyl acetate (diphenyl analogue of Oxybutynin)	Oxybutinin impurity-B as per EP	Oxybutinin chloride	14943-53-4
(RS)-2-Cyclohexyl-2-hydroxy-2- phenyl acetic acid (or) Phenylcyclohexylglycolic acid)	Oxybutinin impurity-D as per EP and impurity-A as per USP	Oxybutinin chloride	4335-77-7
α-Cyclohexyl-α-hydroxybenzeneacetic Acid Methyl Ester	Oxybutinin impurity-B as per USP	Oxybutinin chloride	10399-13-0
3-Hydroxy-1-methyl-1-Azoniabicyclo [2.2.2]octane Bromide	Clidinium related compound A	Clidinium bromide	76201-95-1