SYNONYMS

(8-Methyl-8-azabicyclo[3.2.1]octan-3-yl) 3-hydroxy-2-phenylpropanoate; Tropyl tropate; 1alphaH,5alphaH-Tropan-3alpha-ol tropate; 3-alpha-Tropanyl 2-phenylhydracrylate; Atropen; Atropin; Atropina; Atropinol; DL-Tropanyl 2-hydroxy-1-phenylpropionate; Isopto-atropine; Tropic acid 3-alphatropanyl ester; Tropine tropate; Troyl tropate; alpha-(Hydroxymethyl)benzeneacetic acid 8-methyl-8azabicyclo(3.2.1)oct-3-yl ester; beta-Phenyl-gamma-oxypropionsaeure-tropyl-ester; DL-Hyoscyamine; DL-Tropyltropate; endo-(±)-alpha-(Hydroxymethyl)benzeneaceticacid 8-methyl-8-azabicyclo[3.2,1]oct-3-yl ester;

PRODUCT IDENTIFICATION

 CAS RN
 51-55-8; 78597-12-3

 EINECS RN
 200-104-8

 FORMULA
 C17H23NO3

 MOL WEIGHT
 289.37



PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE white to off-white powder MELTING POINT 114 - 118 C BOILING POINT DENSITY SOLUBILITY IN WATER PH VAPOR DENSITY REFRACTIVE INDEX FLASH POINT

GENERAL DESCRIPTION

Atropine is the best known of the anticholinergic or parasympatholytic drugs, which inhibit the parasympathetic nervous system. Atropine is an extremely poisonousdrug derived from a plant called belladonna. A tincture, an extract, and a leaf fluidextract are still official drugs. Their therapeutic value lies chiefly in their atropine content. Atropine and other parasympatholytics have been frequently used in the treatment of peptic ulcer, which they ameliorate by reducing acid secretions in thestomach when it is empty and by decreasing the strength of smooth musclecontractions. They are also used to treat some other GI disturbances, which are notassociated with organic disease--diarrhea, belching, spasm of the pylorus (openingthrough which the stomach empties into the intestine), and "stomach ache" because ofoveractivity of the GI smooth muscles. These drugs are used in theeye to dilate it and to paralyze accommodation (that is, temporarily prevent the eyefrom focusing). Atropine is sometimes used to counteract some of the effects ofcholinergic drugs during or after their use in therapy. One significant use of atropine inthe military is to counteract the effects of nerve gas. Atropine is used preoperatively todecrease the amount of saliva and respiratory secretions, especially when aninhalation anesthetic is to be used. (source: http://www.tpub.com/)

Aatropine: an anticholinergic alkaloid found in belladonna; it acts as a competitive antagonist of acetylcholine at muscarinic receptors, blocking stimulation of muscles and glands by parasympathetic and cholinergic sympathetic nerves; used as the sulfate salt as a smooth muscle relaxant, as an antiarrhythmic, as a preanesthetic to reduce secretions, as an antidote to poisoning by organophosphorus compounds, cholinesterase inhibitors, or muscarine, and as a mydriatic and cycloplegic. (source: http://www.mercksource.com/)

Tropane is a nitrogenous bicyclic compound in which a piperidine ring and a pyrrolidine ring are fused. This is the basic stucture of tropane alkaloids which occur in the Solanaceae family plant mainly. Examples of tropane alkaloids are atropine, scolamine, cocaine, and ecgonine. Tropane alkaloids are used as anticholinergic, cholinesterase inhibitor, and as cycloplegic and mydriatic. The prefix "nor-" describes normal structure which has no branched chain of carbon atoms. In case of nortropane, it has one less methylene group than tropane. (Tropanyl Products)

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(p-Ethylbenzyl)atropinium bromide tropine Oxide tropine Oxide Hydrochloride (p-Octylbenzyl)atropinium bromide tropine O-(hydrogen sulfate) tropine-N-octylbromide tropine salicylate tropine sulfate poatropine hydrochloride	3784-89-2
tropine Oxide tropine Oxide Hydrochloride (p-Octylbenzyl)atropinium bromide tropine O-(hydrogen sulfate) tropine-N-octylbromide tropine salicylate tropine sulfate poatropine hydrochloride	3784-89-2
tropine Oxide Hydrochloride (p-Octylbenzyl)atropinium bromide tropine O-(hydrogen sulfate) tropine-N-octylbromide tropine salicylate tropine sulfate poatropine hydrochloride	4004-37-9
(p-Octylbenzyl)atropinium bromide tropine O-(hydrogen sulfate) tropine-N-octylbromide tropine salicylate tropine sulfate poatropine hydrochloride	4438-22-6
tropine O-(hydrogen sulfate) tropine-N-octylbromide tropine salicylate tropine sulfate poatropine hydrochloride	4574-60-1
tropine-N-octylbromide tropine salicylate tropine sulfate poatropine hydrochloride	4739-93-9
tropine salicylate tropine sulfate poatropine hydrochloride	5226-98-2
ropine sulfate poatropine hydrochloride	5843-82-3
ooatropine hydrochloride	5908-95-2
	5908-99-6
	5978-81-4
tropine hydrobromide	6415-90-3

Tropacine	6878-98-4
Prampine	7009-65-6
Atropine nitrate	7459-97-4
Neo-secatropin	8056-06-2
Neo-secatropin	8056-06-2
N-PropargyInoratropine	10139-08-9
Somatropin	12629-01-5
(+)-Hyoscyamine	13269-35-7
Propionyl atropine methyl nitrate	14319-87-0
Sultroponium	15130-91-3
Noratropine	16839-98-8
Atropine iodomethylate	17444-28-9
Naltropine	22235-85-4
Ipratropium bromide	22254-24-6
8-Isopropylnoratropine methobromide	24358-20-1
Di-n-propylacetyl-homatropine	29135-16-8
Methylatropine	31610-87-4
Atropine hydrochloride	33952-38-4
Ipratropium	60205-81-4
N-Methylhomatropinium nitrate	60539-03-9
Tropine atropate methylbromide	63978-21-2
Anisotropine methylbromide	70642-90-9
Sulverapride	73747-20-3
Atropine, sulfate hydrate	73791-47-6
N,4-Biphenylyl-methyl-O-acetyl-atropiniumbromide	73954-02-6
N-4-Biphenylyl-methyl-O-n-butyryl-atropinium-bromid	73954-03-7
N-4-Biphenylyl-methyl-O-propionyl-atropinium-bromid	73954-04-8
Atropine beta-(N-morpholinyl)propionate	74191-75-6
Atropine beta-(N-methylpiperazinyl)propionate	74191-76-7
8-(p-(2-Ethylbutyl)benzyl)atropinium bromide	78371-78-5
4-Azidoatropine methiodide	90991-00-7
(1,4-Diethoxybenzene)bisatropinium dibromide	91318-09-1
8-(p-Butylbenzyl)atropinium bromide	101636-41-3
8-(p-tert-Butylbenzyl)atropinium bromide	101636-42-4
8-Benzylatropinium bromide	102432-87-1
beta-8-(p-Ethylbenzyl)atropinium bromide	102432-94-0
8-(p-lsopropylbenzyl)atropinium bromide	102432-96-2
8-(p-Methylbenzyl)atropinium bromide	102432-97-3
8-(p-Pentylbenzyl)atropinium bromide	102433-01-2
Prostatropin	103107-01-3

STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions. Light Sensitive
CONDITIONS OF INSTABILITY	Excess heat, light. Alkalis, iodine, mercury salts, tannic acids.
INCOMPATIBLE MATERIALS	Strong oxidizing agents. Light
DECOMPOSITION PRODUCTS	Carbon monoxide, Carbon dioxide, Nitrogen oxides.
POLYMERIZATION	Will not occur
SAFETY	
HAZARD NOTES	Highly Toxic. Very toxic by inhalation and if swallowed. Target organ(s): Heart. Nerves. Can cause CNS depression.
EYE SKIN	May cause eye irritation.
INGESTION	May cause skin irritation. May be harmful if absorbed through the skin. May be fatal if swallowed.
INHALATION	Material may be irritating to mucous membranes and upper respiratory tract. May be fatal if inhaled.
CHRONIC	
NFPA RATING	Health: 3, Flammability: 0, Reactivity: 1

SALES SPECIFICATION

APPEARANCE	white to off-white crystalline powder
ASSAY	99.0 - 100.5%
MELTING POINT	114 - 118 C
RESIDUE ON IGNITION	0.1% max
OPTICAL ROTATION	-0.65° ~ -0.75°
RELATED SUBSTANCES	Total impurity: 1.0% max, Individual impurity: 0.5% max

TRANSPORT & REGULATORY INFORMATION

UN NO. HAZARD CLASS PACKING GROUP HAZARD SYMBOL T+ RISK PHRASES SAFETY PHRASES 25-45

PACKING

PRICE