Pseudoephedrine Hydrochloride (Cas No 345-78-8)

TAJMTF-KQGRTU5144

Taj Active Pharmaceuticals Ingredients

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Raw Material / Chemicals Index

Taj Pharmaceuticals Ltd.

Pseudoephedrine Hydrochloride

(Cas No 345-78-8)

Pseudoephedrine hydrochloride
CAS Number 345-78-8

Synonyms	(1S,2S)-2-Methylamino-1-phenyl-propan-1-ol hydrochloride Benzenemethanol, a-[(1S)-1-(methylamino)ethyl]-, hydrochloride, (aS)- d-(1S,2S)-Pseudoephedrine hydrochloride d-[a-(1-Methylamino)ethyl]benzyl alcohol hydrochloride Novafed Sudafed
Formula	C10H16ClNO
Molecular Weight	201.69
Einecs	206-462-1
RTECS	UL5950000
RTECS Class	Drug; Human Data
Beilstein/Gmelin	3915112

Physical and Chemical Properties

Appearance	White crystalline powder.
Melting Point	183 – 186
Density	1.198 g/cm3
Heat Of Vaporization	
Usage	Medication.

Chemistry

Pseudoephedrine is a phenethylamine, and a diastereomer of ephedrine. Pseudoephedrine is a chiral molecule, meaning it occurs in both "left-handed" and "right-handed" configurations which are not superimposable.

Pseudoephedrine is the International Nonproprietary Name (INN) of the (1S,2S)- diastereomer of ephedrine (which has 1R,2S- configuration). Other names are (+)-pseudoephedrine and D-pseudoephedrine.

L-Pseudoephedrine, also known as (-)-(1R,2R)-pseudoephedrine or (-)-pseudoephedrine, is the optical isomer of D-pseudoephedrine. It has fewer side-effects, fewer central nervous system (CNS) stimulatory effects, does not reduce to D-methamphetamine (which is the enantiomer used as a recreational drug), and yet it retains its efficacy as a decongestant. [citation needed] However, the patent holder for L-pseudoephedrine (Pfizer/Warner-Lambert)[has not yet sought or received government approval for its sale to the public.

First Aid Measures

Ingestion	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation	Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Handling and Storage

Storage	Store in a cool, dry place.
Handling	Wash thoroughly after handling. Use only in a well ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Hazards Identification

Inhalation	The toxicological properties of this substance have not been fully investigated.
Ingestion	May cause irritation of the digestive tract. May be harmful if swallowed. May cause central nervous system effects and/or neurological effects.

Exposure Controls/Personal Protection

Personal Protection	Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
Exposure Effects	Prolonged or repeated exposure can cause psychic abnormalities such as anxiety, depression and excitability. Prolonged exposure may cause mental changes such as hallucinations, depression, psychosis, and possibly coma. Repeated or prolonged exposure may cause CNS stimulation.

Fire Fighting Measures

Fire Fighting Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extinguishing media: Use extinguishing media most appropriate for the surrounding fire.

Accidental Release Measures

Small spills/leaks Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

Stability and Reactivity

Incompatibilities Light, strong oxidizing agents.

Stability Stable under normal temperatures and pressures.

Decomposition Carbon dioxide and carbon monoxide, hydrogen chloride gas, nitrogen oxides, various hydrocarbons.

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