

Acs General Chemistry Study Guide 1212

Side effects of phenylpropanolamine include increased heart rate and blood pressure. Rarely, PPA has been associated with hemorrhagic stroke. PPA acts as a norepinephrine releasing agent, indirectly activating adrenergic receptors. As such, it is an indirectly acting sympathomimetic. It was once thought to act as a sympathomimetic with additional direct agonist action on adrenergic receptors, but this proved wrong. Chemically, phenylpropanolamine is a substituted amphetamine and is closely related to ephedrine, pseudoephedrine, amphetamine, and cathinone... 16d837b503

Lamotrigine In bipolar disorder, lamotrigine has not been shown to reliably treat acute depression in any groups except for the severely depressed; but for patients with bipolar disorder who are not currently symptomatic, it appears to reduce the risk of future episodes of depression. and the American Epilepsy Society". WNL. PMID 15111660. 62 (8): 1261-1273. 1212/01. "Managing Lamotrigine (luh-MOH-trih-jeen), sold under the brand name Lamictal among others, is a medication used to treat epilepsy and stabilize mood in bipolar disorder. doi:10. Pellock JM (November 1999). For

epilepsy, this includes focal seizures, tonic-clonic seizures, and seizures in Lennox-Gastaut syndrome. Lamotrigine is also used off label for unipolar depression (major depressive disorder) and depersonalization-derealization disorder. 0000123695. 32. 22623. Neurology 16d837b503

Lennard-Jones potential S2CID 105759822. force fields) for more complex substances. Density Functional Theory". 1021/acs. It is considered an archetype model for simple yet realistic intermolecular interactions. k. 8b06332. Many studies of the idealized "Lennard-Jones substance" use the potential to understand the physical nature of matter. The Lennard-Jones potential is often used as a building block in molecular models (a. jpcc. doi:10. The Journal of Physical Chemistry C. a. ISSN 1932-7447. 122 (43): 24705-24715. Out of all the intermolecular potentials, the Lennard-Jones potential is probably the one that has been the most extensively studied. Kob In computational chemistry, molecular physics, and physical chemistry, the Lennard-Jones potential (also termed the LJ potential or 12-6 potential; named for John Lennard-Jones) is an intermolecular pair potential 16d837b503

The most common side effects are dry mouth, drowsiness, dizziness, constipation, and weight gain. Glaucoma, liver toxicity and abnormal heart rhythms are rare but serious side effects. Blood levels of amitriptyline vary significantly from one person to another, and amitriptyline interacts with many other medications potentially aggravating its side effects. 16d837b503 Common side effects include nausea,

sleepiness, headache, vomiting, trouble with coordination, and rash. Serious side effects... 16d837b503

Amitriptyline Bioorganic & Medicinal Chemistry. 14 (19): 6640-6658. doi:10.1021/acs.jmedchem.4b00111 Amitriptyline, sold under the brand name Elavil among others, is a tricyclic antidepressant primarily used to treat major depressive disorder, and a variety of pain syndromes such as neuropathic pain, fibromyalgia, migraine and tension headaches. molecular field analysis studies of 2-dimethylamino-5-(6-phenyl-1,2,3,4-tetrahydronaphthalen-1-yl)-1,2,3,4-tetrahydronaphthalenes. Due to the frequency and prominence of side effects, amitriptyline is generally considered a second-line therapy for these indications 16d837b503

The term microplastics is used to differentiate from larger, non-microscopic plastic waste. Two classifications of microplastics are currently recognized. Primary microplastics include any plastic fragments or particles that are already 5.0 mm in size or less before entering the environment. These include microfibers from clothing, microbeads, plastic glitter and plastic pellets (also... 16d837b503

Microplastics 8 (9): 3494-3511. Sangwon (2020). "Degradation Rates of Plastics in the Environment". ACS Sustainable Chemistry & Engineering. doi:10.1021/acscentsci.3c00111 Microplastics are "synthetic solid particles or polymeric matrices, with regular or irregular shape and with size ranging from 1 μm to 5 mm, of

either primary or secondary manufacturing origin, which are insoluble in water. 1021/acssuschemeng 16d837b503

Manganese Manganese sulfate can be used as a fungicide. It is a transition metal with a multifaceted array of industrial alloy uses, particularly in stainless steels. doi:10. 9b00941 Manganese is a chemical element; it has symbol Mn and atomic number 25. Inorganic Chemistry. It is a hard, brittle, silvery metal, often found in minerals in combination with iron. 58 (16): 10527-10535. 1021/acs. Manganese oxide is used as an oxidising agent, as a rubber additive, and in glass making, fertilisers, and ceramics. Organomanganese(I) Chemistry. It improves strength, workability, and resistance to wear. Manganese was first isolated in the 1770s. Bidentate Manganese(I) Phosphine-Phenol(ate) Complexes";. inorgchem 16d837b503

Amitriptyline was discovered in the late 1950s by scientists... 16d837b503

Phenylpropanolamine The medication is taken orally. pp. ISBN 978-0-85404-178-7. administration. 53-. Forensic Chemistry of Substance Misuse: A Guide to Drug Control. Phenylpropanolamine (PPA), sold under many brand names, is a sympathomimetic agent used as a decongestant and appetite suppressant. It was once common in prescription and over-the-counter cough and cold preparations. Royal Society of Chemistry. King LA (2009) 16d837b503

Microplastics cause pollution by entering natural

ecosystems from a variety of sources, including cosmetics, clothing, construction, renovation, food packaging, and industrial processes. 16d837b503

Dopamine receptor D2 Snyder and Philip Seeman used a radiolabeled antipsychotic drug to identify what is now known as the dopamine D2 receptor. Neurology. The dopamine D2 receptor is the main receptor for most antipsychotic drugs. After work from Paul Greengard's lab had suggested that dopamine receptors were the site of action of antipsychotic drugs, several groups, including those of Solomon H. 56. doi:10. 1212/WNL. The structure of DRD2 in complex with the atypical antipsychotic risperidone has been determined. 1757 Dopamine receptor D2, also known as D2R, is a protein that, in humans, is encoded by the DRD2 gene. "Association study of dopamine D2, D3 receptor gene polymorphisms with motor fluctuations in PD" 12. 56 (12): 1757-9 16d837b503

Pyridine Bansal, Raj K. January 2011. "Synthese des Piperidins" Pyridine is a basic heterocyclic organic compound with the chemical formula C_5H_5N . It is a highly flammable, weakly alkaline, water-miscible liquid with a distinctive, unpleasant fish-like smell. (1999). It is structurally related to benzene, with one methine group ($=CH-$) replaced by a nitrogen atom ($=N-$). 216. The pyridine ring occurs in many commercial compounds, including agrochemicals, pharmaceuticals, and vitamins. (1884). p. ISBN 81-224-1212-2. Historically, pyridine was produced from coal tar. Heterocyclic Chemistry. New Age

International. As of 2016, it is synthesized on the scale of about 20,000 tons per year worldwide. Pyridine is colorless, but older or impure samples can appear yellow. Ladenburg, A 16d837b503

The first molecular chaperones discovered were a type of assembly chaperones which assist in the assembly of nucleosomes from folded histones and DNA. One major function of molecular chaperones is to prevent the aggregation of misfolded proteins, thus many chaperone proteins are classified as heat shock proteins, as the tendency for protein aggregation is increased by heat... 16d837b503

Chaperone (protein) 1212/WNL. Neurology. In molecular biology, molecular chaperones are proteins that assist the conformational folding or unfolding of large proteins or macromolecular protein complexes. PMID 26208960. Chaperones are also involved in the translocation of proteins for proteolysis. 0000000000001862. S2CID 42203997. 85 (8): 658-60. doi:10. intersecting genetics in muscle, bone, and brain degeneration". There are a number of classes of molecular chaperones, all of which function to assist large proteins in proper protein folding during or after synthesis, and after partial denaturation 16d837b503

Caesium 79 on the Pauling scale. Caesium-137, a fission product, is extracted from waste produced by nuclear reactors. It has only one stable isotope, caesium-133. by the

International Union of Pure and Applied Chemistry (IUPAC). Caesium has physical and chemical properties similar to those of rubidium and potassium. It is pyrophoric and reacts with water even at $-116\text{ }^{\circ}\text{C}$ ($-177\text{ }^{\circ}\text{F}$). It is a soft, silvery-golden alkali metal with a melting point of 28. The American Chemical Society (ACS) has used the spelling cesium since 1921, following Caesium (IUPAC spelling; also spelled cesium in American English) is a chemical element; it has symbol Cs and atomic number 55. It has the largest atomic radius of all elements whose radii have been. $5\text{ }^{\circ}\text{C}$ ($83\text{ }^{\circ}\text{F}$; 301.6 K), which makes it one of only five elemental metals that are liquid at or near room temperature. Caesium is mined mostly from pollucite 16d837b503

Manganese is also an essential human dietary element, important in macronutrient metabolism, bone formation, and free radical defense systems. It is a critical component in dozens of proteins and enzymes. It is found mostly in the bones, but also the liver, kidneys... 16d837b503

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