Exercicios de quimica organica resolvidos pdf

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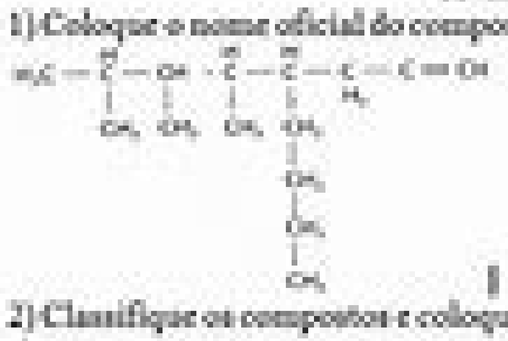
Exercicios de quimica organica resolvidos pdf

Avaliação de Química

1) Coloque o nome oficial do composto e monte sua F. M.



2) Classifique os compostos e coloque o nome:

a)

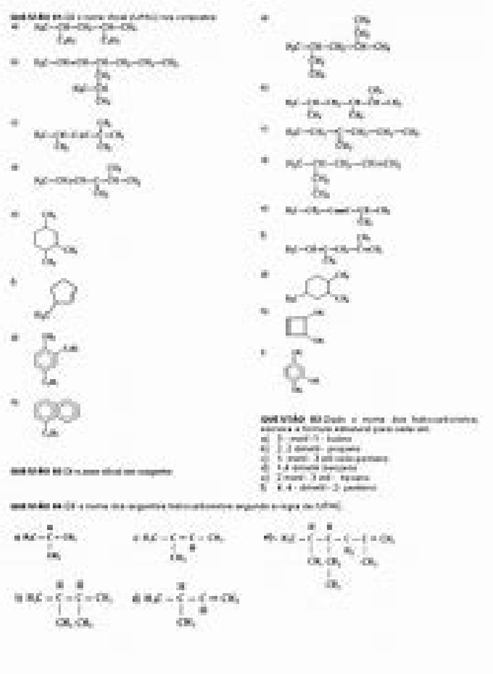
b)

3) Escreva a fórmula estrutural e molecular dos seguintes compostos:

a) 2,3 dimetilbutano

b) 2,4,6-trimetil-octano

c) 2,6-dimetil-4-n-propiloctano



Lista de Exercícios com Resolução
Assunto – Introdução a Química Orgânica

1. (Enem) O estudo de compostos orgânicos permite aos alunos definir propriedades físicas e químicas responsáveis pelas características de cada substância descoberta. Um laboratório investiga substâncias quanto seja sabor, cor/forma, seja inovando, heterogênea e classificada.

A fórmula que se enquadra nas características da molécula investigada é:

a) $CH_3 - (CH_2)_2 - CH(OH) - CO - NH - CH_3$

b) $CH_3 - (CH_2)_3 - CH(CH_3) - CO - NH - CH_3$

c) $CH_3 - (CH_2)_2 - CH(CH_3) - CO - NH_2$

d) $CH_3 - CH_2 - CH(CH_3) - CO - NH - CH_3$

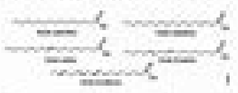
e) $C_6H_5 - CH_2 - CO - NH - CH_3$

2. (Enem) As moléculas de compostos lembram figuras humanas e foram criadas para estimular o interesse do jovem na compreensão da linguagem explorou em formulas estruturais, muito usadas em química orgânica. Um exemplo é o NanoKid, representado na figura.

Em que parte do corpo do NanoKid estão carbonos quaternários?

a) Mãos.
b) Cabeça.
c) Tórax.
d) Abdômen.
e) Pés.

3. (Enem PPL) A qualidade do óleo de cozinha, composto principalmente por moléculas de ácidos graxos, pode ser medida pelo índice de iodo. Quanto maior o grau de insaturação da molécula, maior o índice de iodo determinado e melhor a qualidade do óleo. Na figura, são apresentadas algumas estruturas que podem estar presentes em diferentes óleos de cozinha.



Dentre os compostos apresentados, os óleos que proporcionam melhor qualidade para os óleos de cozinha são os ácidos

a) esteárico e oleico.
b) láurico e linoleico.
c) palmítico e esteárico.
d) palmítico e linolênico.
e) linoleico e oleico.

4. (Unesp) Uma revisão do estudo prova que a vitamina K preserva a saúde dos ossos, previne contra doenças do coração e pode até atuar contra tumores. A vitamina K1 (filoquinona, fitomenadiol, encontra-se principalmente nos vegetais de folhas verdes, tais como folhas de salsa, espinafres, brócolos, couve e alface. Outras fontes ricas são as sementes de soja, figado de vaca e chá verde. Boas fontes incluem a gema de ovo, aveia, trigo integral, frutas, tomates, abacates, manteiga e queijo. Com respeito à filoquinona, cuja fórmula estrutural se encontra a seguir, assinale a alternativa verdadeira.

Com base no descrito acima, é considerando outras as fontes de vitaminas, é possível afirmar que as vitaminas de coloração laranja

a) podem ter sido levadas à Europa pelos Conquistadores Incas Colombianos e contém um pigmento que é um polifenol insaturado.
b) podem ter sido levadas à Europa por rotas comerciais consolidadas e contém um pigmento cuja molécula possui apenas duplas ligações cis.
c) podem ter sido levadas à Europa pelos ciganos e contém um pigmento natural que é um poliéster saturado.
d) podem ter sido trazidas ao Brasil pelos primeiros degredados e contém um pigmento que é um poliéster natural cuja insaturação é cis-trans.
e) podem ter sido trazidas a Pernambuco durante a invasão holandesa e contém um pigmento natural que é um hidrocarboneto insaturado.

11 Admite-se que as cenouras sejam originárias da região do atual Afeganistão, tendo sido levadas para outras partes do mundo por viajantes ou invasores. Com base em relatos escritos, pode-se dizer que as cenouras devem ter sido levadas à Europa no século XII e, às Américas, no início do século XVII.
Em escritos anteriores ao século XVI, há referência apenas a cenouras de cor roxa, amarela ou vermelha. É possível que as cenouras de cor laranja sejam originárias dos Países Baixos, e que tenham sido desenvolvidas, inicialmente, à época do Príncipe de Orange (1533-1584).
No Brasil, são comuns apenas as cenouras laranja, cuja cor se deve à presença do pigmento betacaroteno, representado a seguir.

Com base no descrito acima, é considerando outras as fontes de vitaminas, é possível afirmar que as cenouras de coloração laranja

a) podem ter sido levadas à Europa pelos Conquistadores Incas Colombianos e contém um pigmento que é um polifenol insaturado.
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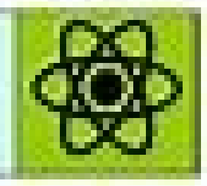
e) podem ter sido trazidas a Pernambuco durante a invasão holandesa e contém um pigmento natural que é um hidrocarboneto insaturado.

1ª – LISTA DE EXERCÍCIOS DE QUÍMICA

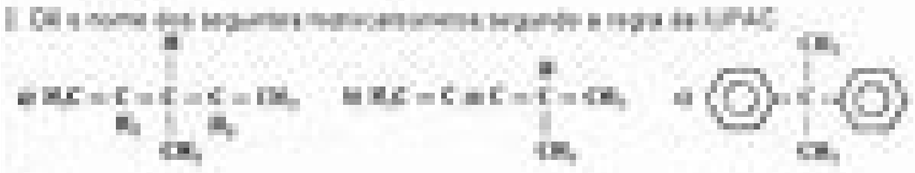
NOMENCLATURA DE HIDROCARBONETOS RAMIFICADOS

PROFº: ANDRÉ BUENO



1. Dê o nome dos seguintes hidrocarbonetos segundo a regra da IUPAC:

2. Dê o nome dos seguintes hidrocarbonetos segundo a regra da IUPAC:



3. Dê o nome dos seguintes hidrocarbonetos segundo a regra da IUPAC:

4. Dê o nome dos seguintes hidrocarbonetos segundo a regra da IUPAC:

Exercicios resolvidos de ressonancia quimica organica. Exercicios resolvidos de nomenclatura quimica organica. Exercicios resolvidos de quimica organica nomenclatura hidrocarbonetos pdf. Exercicios de quimica organica resolvidos pdf. Lista de exercicios de quimica organica resolvidos. Exercicios de quimica organica nomenclatura resolvidos pdf. Exercicios resolvidos de quimica organica ensino superior. Exercicios de quimica organica 3 ano ensino medio resolvidos.

Data de-duplication technology has emerged as a key technology in the effort to reduce the amount of data backed up on a daily basis, which in many enterprises is growing at more than 100% every year. For example, John Thomas, IT manager at Atlanta-based law firm Troutman Sanders LLP, was able to use data de-duplication technology to reduce the amount of data streamed from more than a dozen remote offices and thereby cut his backup window from 11 hours to 50 minutes. Thomas says his compression ratio for his backups run as high as 55:1.Vendors have taken different approaches to the technology resulting in multiple distinct products that users should become familiar with in order to choose the flavor that best suits their environments.Data de-duplication uses commonality factoring to reduce the amount of data either at the backup server or at the target storage device. As a result of enormous compression ratios achieved by data de-duplication technology, disk is becoming more attractive as a viable, online alternative to traditional tape-based backup. For example, people working at remote and branch offices need instant access to all the data and applications available at their company's headquarters. So IT shops typically set up remote mini data centers, with application servers, block and file data storage, backup tape and report printers, sacrificing administrative control. By utilizing data de-dupe technology, backups can be performed over the WAN using spare nighttime bandwidth, eliminating the need for tape at remote sites.Greg Schulz, senior analyst at The StorageIO Group, says de-duplication technology mainly resides in the backup space, complementing traditional tape libraries with the purpose of lowering costs and reducing data.The main benefit to de-dupe technology is that you're not seeing your virtual tape library fill up, and you're "not seeing your backup targets fill up as fast as it normally would," Schulz says. De-dupe can be done at the target of a backup stream (the storage array or tape drive) or at the source of the data being backed up (the application server). Traditionally, de-dupe products had been used as a target for backup data, but Schulz says there is "a growing emphasis de-duping back on the server."Target de-dupe products are generally used as part of a final repository for backup data. Most backup software today supports tape volumes, files or raw disk as targets.

Target de-dupe products mimic a tape library and support virtual tape libraries (VTL), or they can act as a network-attached storage file server supporting network file system (NFS) or Common Internet File System files. Target de-dupe technology can also work on raw disk supporting Internet SCSI or Fibre Channel logical unit numbers (LUN). Prominent target based de-dupe products are sold by Data Domain Inc., Diligent Technologies Corp., ExaGrid Systems Inc., FalconStor Software Inc., Quantum Corp., and Sepaton Inc. Today, de-duping data at the target is the leading method, but de-duping data at the source where the data is coming from is even more disruptive, and the benefits are far greater, Schulz says.Source de-dupe products replace backup software used in a client/server configuration, where remote clients de-dupe data being backed up and only transmit unique data to the central server. This reduces bandwidth requirements considerably, according to Schulz. Some prominent source-based de-dupe products include Asigra Inc.'s Televaulting for Enterprises, EMC Corp.'s Avamar, Network Appliance Inc.'s SnapVault, and Symantic Corp.'s NetBackup Pure Disk.In band or out of bandAnother characteristic used to discriminate target de-dupe products is when data de-duplication processing occurs. Data de-duplication takes time to compute and find commonality in the data being backed up. To minimize the effect on backup performance, some vendors de-dupe data in the background. These de-dupe products buffer the backup stream to disk and then after the fact reduce its size via de-duplication. ExaGrid, FalconStor and Quantum provide target de-dupe products that do background data de-duplication. S Pakhrin/WikiMedia Commons Cinco de Mayo is often celebrated in the United States with Mexican food and drinks, music, dancing and more. Some cities have parades and cultural performances. However, how Cinco de Mayo is celebrated and even who participates in it has changed over time. Today, the biggest celebrations are held in major cities with significant Mexican-American populations, like Washington D.C., Los Angeles, Houston, Boulder, San Antonio and more. An important thing to remember if you plan on celebrating Cinco de Mayo is that it’s not the anniversary of Mexico’s independence. That’s celebrated on September 16, the anniversary of the 1810 call by Miguel Hidalgo for independence from Spain, and is comparable to July 4th and the signing of the American Declaration of Independence. Photo Courtesy: S Pakhrin/WikiMedia Commons Cinco de Mayo is instead the celebration of the victory of a Mexican Army over invading French forces at the Battle of Puebla on May 5th, 1862. France was attempting to force a puppet monarchy on Mexico, and the victory of the smaller, mostly indigenous Mexican army against some of Europe’s toughest soldiers inspired the people of Mexico. While the Battle of Puebla didn’t end the war with France, it was an important symbolic victory. Today, Cinco de Mayo is celebrated in the state of Puebla with speeches, parades, reenactments of the Battle of Puebla and even an international mole sauce festival. However, it’s not a national holiday in Mexico, and most of the country doesn’t observe it. In the United States, Cinco de Mayo took off as a holiday when Mexican-American activists used it to celebrate Mexican and indigenous accomplishments during the civil rights movement in the 50s and 60s. However, it didn’t become widespread until beer and liquor companies used the holiday to promote sales in the 80s. In the United States, Cinco de Mayo is often celebrated with tacos, guacamole, nachos and other Mexican-American foods. Mexican beer, including brands like Dos Equis and Corona, as well as liquor and mixed drinks, such as tequila and margaritas, are also popular. However, you don’t have to stick to these classic foods to have a great Cinco de Mayo if you don’t want to. Photo Courtesy: Ruth Hartnup/WikiMedia Commons Traditional Mexican dishes can add extra flavor to the holiday. Elote — grilled corn on the cob covered in mayonnaise, cotija cheese and spices — can add a street festival feel to a meal, while a bowl of pozole beef soup makes for a great appetizer. Chicken flautas, salsa verde enchiladas or avocado quesadillas can replace ground beef tacos as the main course, or you can make mole poblano for a dish straight out of Puebla itself. Top things off with churros and chocolate sauce for desert, and you have a meal worthy of a great celebration. Streamers, napkins and other items featuring the colors of the Mexican flag can be a tasteful way to celebrate Cinco de Mayo. While many adults may enjoy Mexican beer and other drinks, a pinata can be a fun way for even kids to get in on the celebration. Photo Courtesy: S Pakhrin/WikiMedia Commons Playing traditional Mexican music is an easy way to set the mood for the holiday. While most Americans think of mariachi music when it comes to Cinco de Mayo, there’s also grupera, banda, Norteño, Tejano and more to choose from, so don’t be afraid to mix things up. You can even learn zapateado, the type of dance moves often performed to mariachi music, or watch an expert if you’re feeling bashful. While sombreros and fake mustaches can come across as disrespectful to Mexican-Americans, buying food or other goods from Mexican-American businesses or learning about Mexican-American history can keep the spirit and intent of the holiday alive in a way that’s fun for everyone. And of course, local parades, festivals, concerts or other events are always a good time.

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