

**Ir Problems 2 Answers Chemsheets**

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The infra-red spectra of H, I and J are given below, but it does indicate which is - which. Identify the three compounds H, I and J, using the infra-red spectra below, and decide which spectrum belongs to which compound. (iii) Compound E, which is a branched chain haloalkane, was found to have the composition by mass of 39.8% C, 7.3% H, 2)

**IR TASK 1 - Weebly**

Practice Problems on Infrared Spectroscopy Prepared by José Laboy 1. Each of the following IR spectra (shown below) corresponds to one of the five isomers of C<sub>4</sub>H<sub>8</sub>O. Match the spectrum to the correct structure.

**Practice Problems on Infrared Spectroscopy -1**

IR Spectroscopy (1087) PP: Join: IR Spectroscopy (1092) WS: Join: IR Problems 1 (1088) WS: Join: IR Problems 2 (1089) WS: Join: IR Problems 3 (1090) WS: Join: IR Problems 4 (1091) WS: Join: High resolution mass spectrometry (1095) PP: Join: High resolution mass spectrometry (1094) WS: Join: Join

**AS level (preview) - CHEMSHEETS.co.uk**

Welcome to WebSpectra - This site was established to help chemistry students with a library of spectroscopy problems. Interpretation of spectra is a technique that requires practice - this site provides 1 H NMR and 13 C NMR, DEPT, COSY and IR spectra of various compounds for students to interpret. Hopefully, these problems will provide a useful resource to better understand spectroscopy.

**WebSpectra - Problems in NMR and IR Spectroscopy**

2,2-dimethylamine 2-methylbut-1-ene 3-methylbutan-1-ol 4-hydroxybutanone 3-methylbutanoic acid butyl methanoate ethanenitrile propanal Decide which spectrum belongs to which compound and draw the molecule next to the spectrum.

**Chemsheets A2 029 (Spectroscopy) - Weebly**

Monomer 1 (name & structure) Monomer 2 (name & structure) Polymer butane-1,4 -dicarboxylic acid propane -1,3,diol repeating unit structure n benzene-1,4-dicarboxylic acid 1,4-diaminobenzene repeating unit structure n 2-amino-3-methylbutanoic acid only one monomer repeating unit structure n pentane-1,5-dioic acid ethane-1,2-diol repeating unit

**ADDITION & CONDENSATION POLYMERS**

2), 10-70 (CBr), 5-40 ((CH<sub>3</sub>)<sub>2</sub>CBr) methylpropene ) 3 90-150 (CH<sub>2</sub>), 90 -150 (C<sub>5</sub> 40 H 3 2) propene 3 ) 90-150 (CH<sub>2</sub>), 90 -150 (C<sub>5</sub> 40 H 3 2-chloropropane ), 2 5-40 (CH<sub>3</sub> 10-70 (CHCl) propanone ), 2 20-50 (CH<sub>3</sub> 190-220 (CO) methylamine 1 25-60 (CH<sub>3</sub>) ethyl propanoate 3 5 2 5-40 (CH<sub>2</sub> CH<sub>2</sub>

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OTHER ACTIVITIES Level File: Organic compounds card sort: GCSE: File: Air pollution card sort: GCSE: File: Is it a chemical cards? KS3: File: Reaction with oxygen card activity

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phosphate 2-deoxyribose guanine (G) cytosine (C) adenine (A) thymine (T) 1 Sketch part of the DNA backbone showing two phosphate units joined to two 2-deoxyribose units. 2 At the top of the page, circle the N atoms on the four bases through which they bond to the 2-deoxyribose

**Chemsheets A2 1114 (DNA problems) ANS**

rate = k[A][B]<sup>2</sup> k = rate = 16 = 2.0 mol<sup>-2</sup> dm<sup>6</sup> s<sup>-1</sup> [A][B]<sup>2</sup> (2 x 2 2) b) rate = k[E] k = rate = 0.80 = 0.20 s<sup>-1</sup> [E] 4 c) rate = k[P][Q] k = rate = 0.00200 = 0.20 mol<sup>-1</sup> dm<sup>3</sup> s<sup>-1</sup> [P][Q] 0.1 x 0.1 d) rate = k[H+][CH<sub>3</sub>COCH<sub>3</sub>] k = rate = 9 x 10<sup>-5</sup> = 3.0 x 10<sup>-5</sup> mol<sup>-1</sup> dm<sup>3</sup> s<sup>-1</sup> [H+][CH<sub>3</sub>COCH<sub>3</sub>] (0.5 x 6.0)

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© www.CHEMSHEETS.co.uk 2:June-2016 Chemsheets A2 1048 Example 2 e.g. propanone + NaBH<sub>4</sub> + 2[H] nucleophilic addition H<sub>2</sub>: H<sub>2</sub>: Example 4 e.g. propanal + KCN then ...

**REACTIONS OF ALDEHYDES & KETONES**

Heat loss is a major problem with calorimetry and can lead to errors in the results. The techniques used in calorimetry are designed to reduce heat loss one way to reduce errors from heat loss is to measure the heat

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WebSpectra - Problems in NMR and IR Spectroscopy View nmr-booklet-answers.pdf from AA 1 © www.CHEMSHEETS.co.uk 12-June-2016 Chemsheets A2 1070 Page 1 TASK 2 - Finding the relative intensity of signals from a spectrum Spectrum A: Spectrum nmr-booklet-answers.pdf - lu00a9 www.CHEMSHEETS.co.uk 12 ...

**H Nmr Spectroscopy Answers Chemsheets**

relative intensity = 0.3 : 0.15 : 0.3 : 0.6 = 2 : 1 : 2 : 6 TASK 2 - Finding the relative intensity of signals from a spectrum For each of the NMR spectra below, calculate the relative number of H atoms associated with each signal. 8 7 6 5 4 3 2 1 0 chemical shift δ

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ACIDS & BASES Type File Ans Type: Acids & bases booklet (1081) Book: Join: Join: Strong & weak acids (1107) PP: Join: pH curves & indicators (1104) PP: Join

**A level (preview) - CHEMSHEETS.co.uk**

C<sub>2</sub>H<sub>5</sub>OH(l) + 3 O<sub>2</sub>(g) → 2 CO<sub>2</sub>(g) + 3 H<sub>2</sub>O(g) Calculate the C-C bond enthalpy in ethanol given the following bond enthalpies and enthalpy of vaporisation of ethanol. Bond enthalpies: C-H 412, O-H 463, C-O 360, C=O 743, O=O 498 kJ/mol