

Take-Home Mid-Term Exam #1

Due: Tues. Feb. 4, 2014

Name: _____

For each of the substances and concepts below, provide **THREE** different resources from which you might find information on the topic. For each resource give the name, the root URL for electronic sources or the date of publication, volume (if applicable) and page numbers for print resources, and a summary of the kinds of information which the resource contains on your topic. For substances, give the CAS Registry Number as well. See the example below to get an idea of what I'm looking for.

Notes: 1. You should use data collections and reference works **ONLY**. **DO NOT USE** journal articles. **DO NOT USE** Wikipedia. 2. Preferentially use resources discussed in Lectures 4 and 5. You may also use other resources mentioned in the Chemistry & Biochemistry Subject Guide or the list of Chemical Information Reference Sources. 3. **MOST IMPORTANT**. You may use any given resource **ONLY ONCE** in the exam, so choose carefully which tools you use for each question.

Example:

Prussian Blue		CAS Registry #:12240-15-2 (alternative: 12227-90-6; 56110-51-1; 82197-54-4, 14038-43-8, others)
Web Source / Print Source	URL or Date/Volume Page(s)	Types of information given
Merck Index	http://www.rsc.org/Merck-Index/	CAS Registry Number, CAS Name, synonyms, mol. formula, mol. wt., literature references color, density, solubility, UV-Vis absorption maximum wavelength, information on derivatives, therapeutic category
CRC Handbook of Chemistry and Physics	http://www.crcnetbase.com/	Mol. formula, CAS Registry Number, Mol. wt., color, density, solubility
ATSDR's Toxicological Profile	http://toxprof.crcpress.com/	Mentioned in profiles of cesium and thallium as an agent for removing them from the body.

Question 1: Metformin**CAS Registry Number:** _____

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 2: DMSO**CAS Registry Number:** _____

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 3: Polycarbonate plastics

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 4: Site-specific mutagenesis

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 5: Clemmensen Reduction

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 6: Buckminsterfullerene

CAS Registry Number: _____

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 7: GC-MS

Resource Name	URL or Date/Volume/Pages	Types of information given

Question 8: Ionic Liquids (as solvents)

Resource Name	URL or Date/Volume/Pages	Types of information given

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