

# CA Specific Substance Assignment Answers

## Part I. Find CAS Registry Numbers for the following substances:

1. Naphthalene 91-20-3
2.  $\alpha$ -Chlorostyrene  $\Rightarrow$  E . ALPHA . -CHLOROSTYRENE / CN 618-34-8
3.  $\gamma$ , $\gamma$ -Dimethylallyl alcohol E . GAMMA . ,  $\gamma$  . GAMMA . - DIMETHYLALLYL ALCOHOL / CN  
556-82-1
4. Chloral hydrate 302-17-0
5. Benz[a]pyrene E 'BENZ(A)PYRENE' / CN 50-32-8
6. *para*-Dichlorobenzene E P-DICHLOROBENZENE / CN 106-46-7
7. *m*-Nitrotoluene 99-08-1
8. *N,N'*-Dimethylbarbituric acid E 'N,N'-DIMETHYLBARBITURIC ACID' / CN  
769-42-6
9. *cis*-1,4-Dichlorocyclohexane 16749-11-4
10. 2-Amino-4,5-diphenylthiazole 6318-74-7
11. Zinc chloride 7646-85-7
12. Tylenol 103-90-2
13. Ibuprofen 15687-27-1
14. Bicyclo[1.1.0]butane E BICYCLO(1,1,0) BUTANE / CN 157-33-5

## Part II. Find CAS Registry Numbers for the following substances:

1.  $ZnCl_2$  7646-85-7 S CLZEN / MF
2. NaOH S HNAO / MF 14014-06-3
3.  $H_2SO_4$  S H2O4S / MF 7664-93-9
4.  $C_{12}H_{22}ClN_3O_8$  S  $C_{12}H_{22}CLN3O8$  91520-20-6

Part III. Combine registry numbers with your other search techniques.

#1

=> FILE LREG

FILE 'LREGISTRY' ENTERED AT 13:47:51 ON 17 JAN 90  
COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

LREGISTRY IS A STATIC LEARNING FILE

=> E NITRAZEPAM/CN

E1	1	NITRATOPHENYLMERCURY/CN
E2	1	NITRAVET/CN
E3	1 -->	NITRAZEPAM/CN
E4	1	NITRAZOL CF EXTRA/CN
E5	1	NITRE/CN
E6	1	NITRE CAKE/CN
E7	1	NITRENDIPINE/CN
E8	1	NITRENE/CN
E9	1	NITRENE (NH)/CN
E10	1	NITRENPAK/CN
E11	1	NITRIC ACID/CN
E12	1	NITRIC ACID AMMONIUM CERIUM(4+) SALT/CN

=> S E3

L34 1 NITRAZEPAM/CN

=> D

L34 ANSWER 1 OF 1

COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

RN 146-22-5  
IN 2H-1,4-Benzodiazepin-2-one, 1,3-dihydro-7-nitro-5-phenyl- (8CI, 9CI)  
SY LA 1  
SY Ro 4-5360  
SY Ro 5-3059  
SY Mogadon  
SY Mogadone  
SY Nitrazepam  
SY Benzalin  
SY Eunoctin  
SY Mogadan  
SY Epibenzalin  
SY Epinelbon  
SY Hipnax  
SY Hipsal  
SY Sonebon  
SY Neozepam  
SY Radedorm  
SY Somitran  
SY Paxisyn  
SY Pelson  
SY Sonnolin  
SY Calsmin  
SY Megadon  
SY Nelbon  
SY Nitrenpax  
SY Relact  
SY Nitravet  
MF C15 H11 N3 O3  
CI COM

```

      C
      :
C:    . C
      :
      :
      :
C:    . C
      : C.
      :
      :
      C      C      NO2
      :      :
N:    .C.    :C.
      :      :
      :      :
C     C     C
      :     :
      :     : C:
      :
      C.....N
      :      H
      :
O:

```

=> **FILE LCA**

FILE 'LCA' ENTERED AT 13:49:06 ON 17 JAN 90  
 COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

LCA IS A STATIC LEARNING FILE

=> **E JONES, M/AU**

```

E1      1      JONES, LARRY R/AU
E2      2      JONES, LOVELL A/AU
E3      2 --> JONES, M/AU
E4      1      JONES, M B/AU
E5      1      JONES, M E L/AU
E6      1      JONES, M H/AU
E7      1      JONES, M T/AU
E8      1      JONES, M W/AU
E9      1      JONES, MALCOLM S JR/AU
E10     2      JONES; MARK M/AU
E11     1      JONES, MARY ELIZABETH/AU
E12     1      JONES, MARYANN M/AU

```

=> **S L34 AND JONES, M?/AU**

```

      4 L34
      14 JONES, M?/AU
L35     1 L34 AND JONES, M?/AU

```

=> D

L35 ANSWER 1 OF 1  
COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

AN CA91(11):83504v  
TI Drugs and human memory: effects of low doses of nitrazepam and  
hyoscine on retention  
AU Jones, D. M.; Jones, M. E. L.; Lewis, M. J.; Spriggs, T. L. B.  
CS Dep. Appl. Psychol., Univ. Wales Inst. Sci. Technol.  
LO Cardiff, Wales  
SO Br. J. Clin. Pharmacol., 7(5), 479-83  
SC 1-6 (Pharmacodynamics)  
DT J  
CO BCPHBM  
IS 0306-5251  
PY 1979  
LA Eng

=> D CBIB AB

L35 ANSWER 1 OF 1  
COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

CA91(11):83504v Drugs and human memory: effects of low doses of  
nitrazepam and hyoscine on retention. Jones, D. M.; Jones, M. E. L.;  
Lewis, M. J.; Spriggs, T. L. B. (Dep. Appl. Psychol., Univ. Wales  
Inst. Sci. Technol., Cardiff, Wales). Br. J. Clin. Pharmacol., 7(5),  
479-83 (Eng) 1979. CODEN: BCPHBM. ISSN: 0306-5251.  
AB Nitrazepam (I) [146-22-5] (5 mg) or hyoscine-HBr [114-49-8] (0.3  
mg) administered orally to volunteers interfered with their memory,  
indicating that drugs of different pharmacol. actions produce  
isomorphic psychol. deficits in memory.

# 2

=> FILE LREG

FILE 'LREGISTRY' ENTERED AT 10:40:29 ON 07 JAN 90  
COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

LREGISTRY IS A STATIC LEARNING FILE

=> E TRAZODONE HYDROCHLORIDE/CN

E1	1	TRAZODON/CN
E2	1	TRAZODONE/CN
E3	1	--> TRAZODONE HYDROCHLORIDE/CN
E4	1	TRE 140/CN
E5	1	TRE-HOLD/CN
E6	1	TRECALMO/CN
E7	1	TRECTOR/CN
E8	1	TRECID/CN
E9	1	TREDEMINE/CN
E10	1	TREF 20/CN
E11	1	TREFANOCIDE/CN
E12	1	TREFLAN/CN



=> D CBIB AB 1-2

L37 ANSWER 1 OF 2

COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

- CA91(11):83297e Hemodynamic and cardiac actions of trazodone and imipramine in the anesthetized dog. Gomoll, A. W.; Byrne, J. E.; Deitchman, D. (Mead Johnson Pharm. Div., Biol. Res., Evansville, IN 47721, USA). Life Sci., 24(20), 1841-7 (Eng) 1979. CODEN: LIFSAK. ISSN: 0024-3205.
- AB In open-chest, anesthetized dogs, trazodone-HCl (I) [25332-39-2] lowered arterial blood pressure (0.3 mg/kg), slowed heart rate (3 mg/kg), and reduced myocardial contractile force (3-10 mg/kg) following i.v. administration.
- Low i.v. doses (0.05-0.15 mg/kg) of imipramine-HCl (II-HCl) [113-52-0] increased arterial blood pressure and heart rate, presumably as a consequence of its known anticholinergic properties and/or effects on neuronal catecholamine reuptake mechanisms.
- Subsequent to administration of 1.5 and 5 mg/kg, however, the vascular and myocardial depressant effects of II were evident.
- I (1-10 mg/kg, i.v.), unlike II, caused a substantial level of  $\alpha$ -adrenergic blockade vs. a fixed challenge dose of norepinephrine, although less than that assocd. with phentolamine.
- Both I and II reduced aortic flow although via different mechanisms. The redn. following administration of I resulted from a decrease in heart rate, whereas II depressed aortic flow by lowering stroke vol.

L37 ANSWER 2 OF 2

COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

- CA91(11):83068f Comparative effects of trazodone and tricyclic antidepressants on uptake of selected neurotransmitters by isolated rat brain synaptosomes. Riblet, L. A.; Gatewood, C. F.; Mayol, R. F. (Dep. Biol. Res., Mead Johnson Pharm. Div., Evansville, IN 47721, USA). Psychopharmacology (Berlin), 63(2), 99-101 (Eng) 1979. CODEN: PSCHDL. ISSN: 0033-3158.
- AB Trazodone-HCl (I) [25332-39-2] was a very selective inhibitor of the brain serotonin (5HT) [50-67-9] uptake mechanism with inhibitory concn. (IC50) values of  $5.67 \times 10^{-7}$ ,  $3.54 \times 10^{-5}$ , and  $5.25 \times 10^{-5}$ M, for 5-HT, norepinephrine (NE) [51-41-2] and dopamine (DA) [51-61-6] uptake, resp.
- Clomipramine-HCl [17321-77-6], the only other selective inhibitor of 5-HT uptake studied, had IC50 values of  $7.59 \times 10^{-9}$ ,  $1.12 \times 10^{-7}$ , and  $2.51 \times 10^{-7}$ M, for 5-HT, NE, and DA, resp.
- Although less potent, I was 4 times more selective than clomipramine in its ability to inhibit synaptosomal uptake of 5-HT with respect to NE.
- This selectivity for the 5-HT uptake mechanism is consistent with the clin. antidepressant efficacy of I.

43

=> FILE LREG

FILE 'LREGISTRY' ENTERED AT 10:53:16 ON 07 JAN 90  
COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

LREGISTRY IS A STATIC LEARNING FILE

=> E TRIETHYLENE GLYCOL/CN

E1	1	TRIETHYLCHLOROTIN/CN
E2	1	TRIETHYLDIALUMINUM TRICHLORIDE/CN
E3	1 -->	TRIETHYLENE GLYCOL/CN
E4	1	TRIETHYLENE GLYCOL BUTYL TERT-BUTYL ETHER/CN
E5	1	TRIETHYLENE GLYCOL DIACRYLATE/CN
E6	1	TRIETHYLENE GLYCOL DICHLORIDE/CN
E7	1	TRIETHYLENE GLYCOL DIMETHACRYLATE/CN
E8	1	TRIETHYLENE GLYCOL DIMETHACRYLATE POLYMER/CN
E9	1	TRIETHYLENE GLYCOL DIMETHACRYLATE-METHYL METHACRYLATE POLYMER/CN
E10	1	TRIETHYLENE GLYCOL DIMETHYL ETHER/CN
E11	1	TRIETHYLENE GLYCOL DITOSYLATE/CN
E12	1	TRIETHYLENE GLYCOL DODECYL ETHER/CN

=> S E3;D

L38 1 "TRIETHYLENE GLYCOL"/CN

L38 ANSWER 1 OF 1

COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

RN 112-27-6  
CN Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis- (9CI) (CA INDEX NAME)  
CN 3,6-Dioxaoctane-1,8-diol  
CN 2,2'-Ethylenedioxydiethanol  
CN Glycol bis(hydroxyethyl) ether  
CN TEG  
CN Trigen  
CN Triglycol  
CN Triethylene glycol (8CI)  
CN 1,2-Bis(2-hydroxyethoxy)ethane  
CN Trigol  
DR 676-18-6  
MF C6 H14 O4  
CI COM  
LC TSCA

HOCH2CH2OCH2CH2OCH2CH2OH

=> FILE LCA

FILE 'LCA' ENTERED AT 10:54:28 ON 07 JAN 90  
COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

LCA IS A STATIC LEARNING FILE

=> S L38 AND ANTIFREEZE

14 L38

5 ANTIFREEZE

L39

1 L38 AND ANTIFREEZE

=> D CBIB AB

L39 ANSWER 1 OF 1

COPYRIGHT (C) 1990 AMERICAN CHEMICAL SOCIETY

CA101(12):93601p Antifreeze compositions. Wood, Donald L. (Shell Oil Co. , USA). U.S. US 4455248 A, 19 Jun 1984, 5 pp. Cont. of U.S. Ser. No. 383,888, abandoned. (Eng). CODEN: USXXAM. CLASS: 252-75; C09K5/00, F28F23/02. APPLICATION: Appl. 546081, 31 Oct 1983; US Appl. 383888, 1 Jun 1982.

AB The antifreeze compn. consists of  $\geq 1$  of ethylene glycol, diethylene glycol, triethylene glycol, propylene glycol, and glycerol and water 0.1-500, Na metasilicate 0.10, K<sub>2</sub>HPO<sub>4</sub> 1.6-2.2, Na metaborate or tetraborate 0.15-0.50, NaNO<sub>3</sub> 0.10-0.40 wt. parts/100 parts of the alc. a Cu-corrosion inhibitor (tolyltriazole 0.07-0.20, benzotriazole 0.07-0.20, mercaptobenzothiazole 0.15-0.50) and an alkali to provide a pH of 9-11.5.