Tithe: Solubility Robert Steele Group 6 8/31/21

Perpose: To determine whether a varjety of conquiric compounds are soluble or insoluble in various solvents

Table of Chemical Data

	Name	1 MW	1 MP	BP	10	Scotch
	Name Biphenyl	154.21	71	255	0.492	environmental Hazard, irritat
	Hexam	86.18	-45	69	0.654	Flammable, environmental
						Hazel, Health Hazerl, Invitant
	Methanol	32.04	-98	64.7	0.74	Flammable, Toxic, Health
						Hazarl
	1- atano	130.23	-16	195	6.824.	Irritant
	ethanol	46.07	-90	177	0.8	Flommach, Toxic, Health Hazard,
						Invitant
	diethyl ether	74.12	-116	34.6	0,706	Health Hazard, Flammable,
						Imitant
1	Methyene Chloride	84.93	-97	139	1.37	Invitant Health Hazarl, Invitant
1	Schloromethane	84.90	97	39	1.37	Health Hazard, Invitant
	Socian Chlorica IM	58,44	0	lou	1.04	
4	hydrochloric acil	36,46	-741	81.51	1.21	Corrosive, Invitant

fredictions: As mentioned in the introduction the solubility of these companies with likely relate with polarity. Therefore compounds line hexane and biphenyl near to miscible porty 420, while the telephols and charge arganic molecules will.

Procedure:

A: 4hmy biphenyl in 2 test toles and lind of water to I and I mil of hexare to other

biphenylle
Socchir Aere

Biadd Int of the and Hearn
to separate test tabes, add methenol
of 1-octamol and shahe
Methenol
1-octamol
C: Mehe predictions for each
year then add Int of Soth
and obsern

the o + ethanol

the o + diethyl ethan

He o + Methylene chloride

He o + hexane

lean + Methylene chloride

D: She 30 mg of benzer and in?
all wetter, NaOH, DCM
then all HCI Lo NaOH