HMWK 10 Intermolecular Forces

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1.	For each of the following forces, dipole-dipole in a. HCl		d hydrogen	bonding:	f London dispersion e. CH ₄
2.	When one of the H atomatoms, the boiling point a. C_6H_6 , $80^{\circ}C$ b.	ms in benzend t changes. Ex	e, C_6H_6 is raplain the o	eplaced by anoth	ner atom or group of points:
3.	each of the following s	-			eraction) that occurs in e. SO ₂
4.	Which member of the structures for these: a. (CH ₃) ₂ NH b. HO-CH ₂ -CH ₂ -OH	following pair or or	rs form inte (CH ₃) ₃ N F-CH ₂ -CI		onds? Draw H-bonded
5.	Which has greater pola a. H ₂ S b. CCl ₄ c. CH ₃ -(CH ₂) ₄ -CH ₃	rizability? or or or	H ₂ Se CF ₄ CH ₃ -CH(CH ₃)-(CH ₂) ₂ -CH	${f I}_3$
б.	Identify the major intermolecular forces in the following cases: a. liquid CH ₄ b. H ₂ O/CH ₃ OH mixture c. LiCl/H ₂ O solution				
7.	Describe the major into a. O_2	ermolecular fo o. CH ₃ I	orce that ex c. CH ₃ (C		ring substances:
3.	Which of the following bonded structures: a. CH ₃ -O-CH ₃ b. CH ₄ c. HF d. Br ₂ e. CH ₃ -OH	g substances v	will have hy	drogen bonds?	Show the hydrogen