

7.10.2: Lecture Demonstrations

Sublimation of Non-Polar Iodine

Add iodine crystals to a pre-heated 2 L Erlenmeyer flask on a hotplate and observe the sublimation and subsequent formation of beautiful crystals.

Easy sublimation is due to **lack** of permanent charge.

Solubility of Polar vs. NonPolar Gases in Water

An HCl fountain can be used^{[1][2][3][4]} to demonstrate the high solubility of HCl in polar water. Compare to oxygen, nitrogen.

References

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2. Ned Steadman. J. Chem. Educ., 1992, 69 (9), p 764
3. Nicholas C. Thomas and Stephen Faulk , Randy Sullivan J. Chem. Educ., 2008, 85 (8), p 1063
4. J. Chem. Educ., 1995, 72 (9), p 828

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