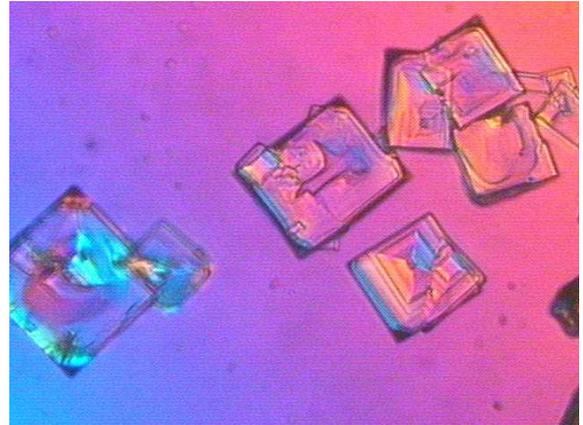


2017 年度
光学顕微鏡観察

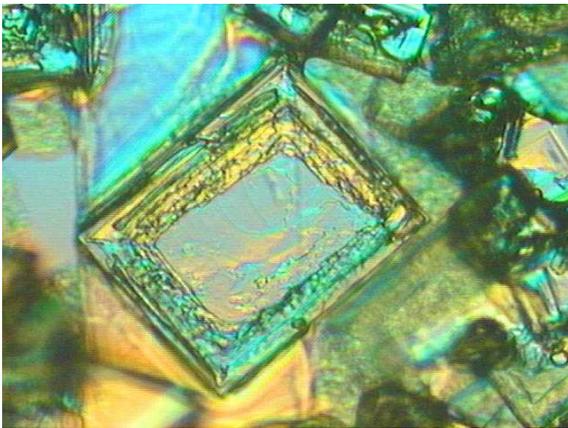
1. 結晶（無機物・塩類）



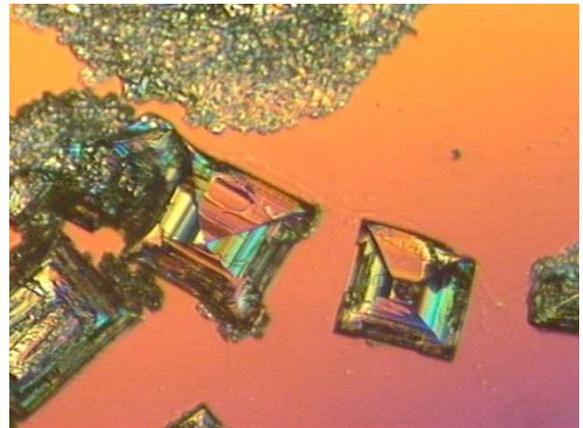
塩化ナトリウム NaCl



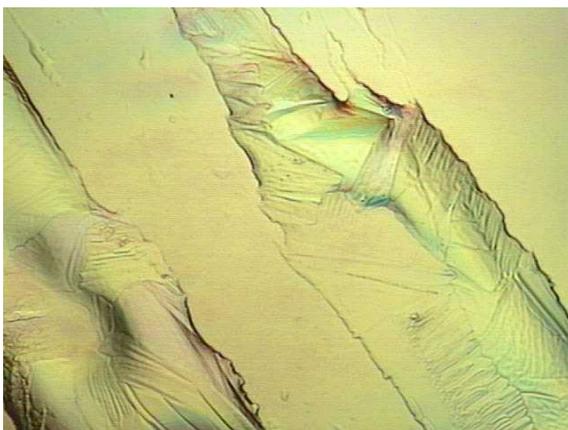
塩化ナトリウム NaCl



塩化カリウム KCl



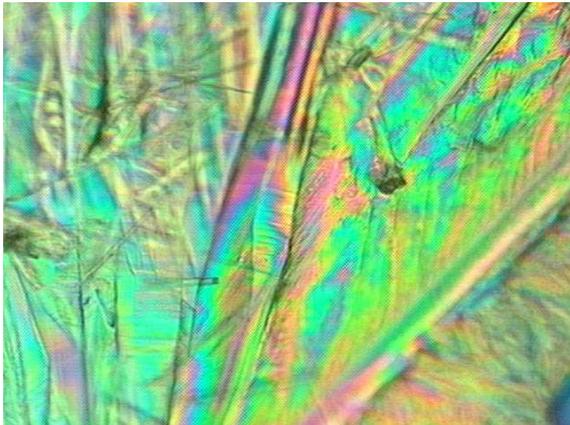
塩化カリウム KCl



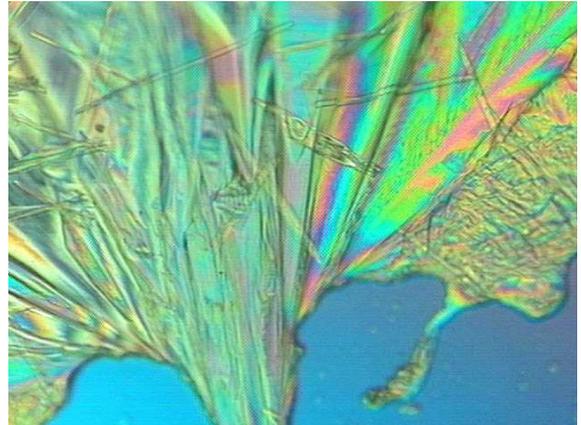
硫酸マグネシウム $Mg_2SO_4 \cdot 7H_2O$



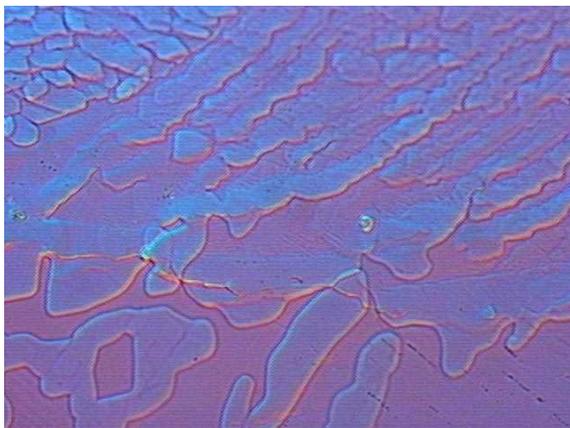
炭酸水素ナトリウム $NaHCO_3$



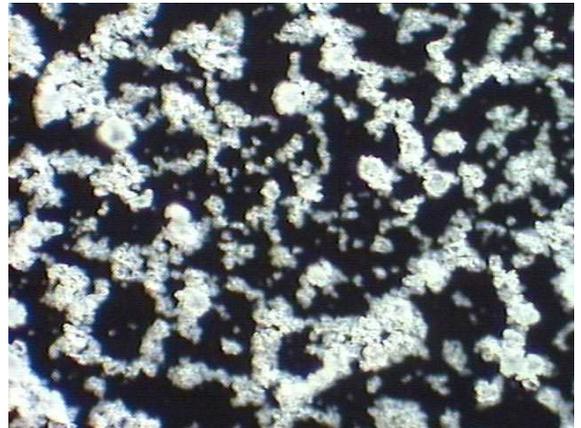
炭酸ナトリウム Na_2CO_3



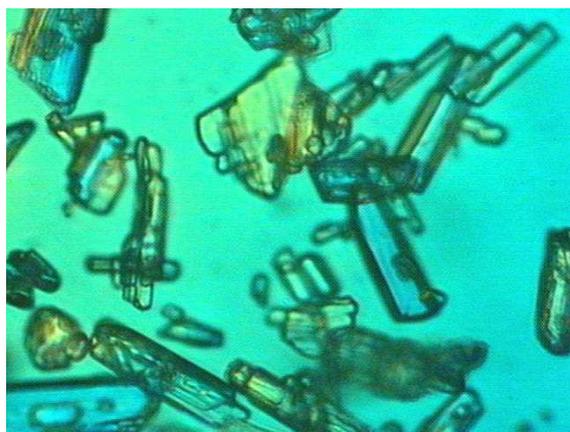
炭酸ナトリウム Na_2CO_3



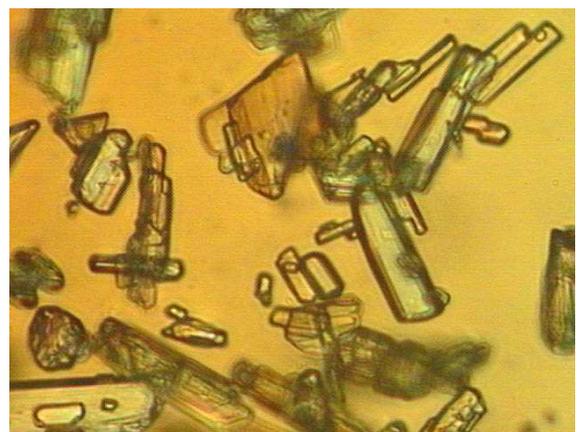
塩化カルシウム $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$



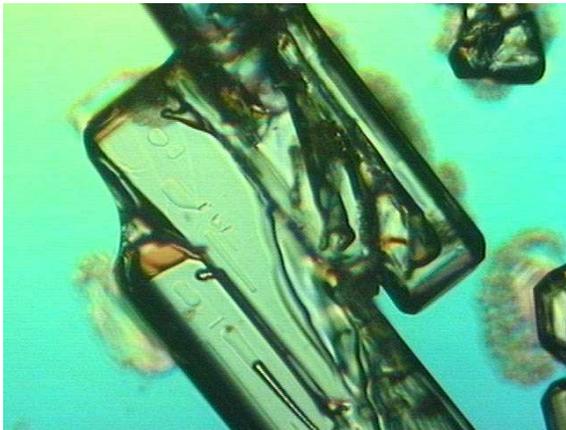
炭酸カルシウム CaCO_3



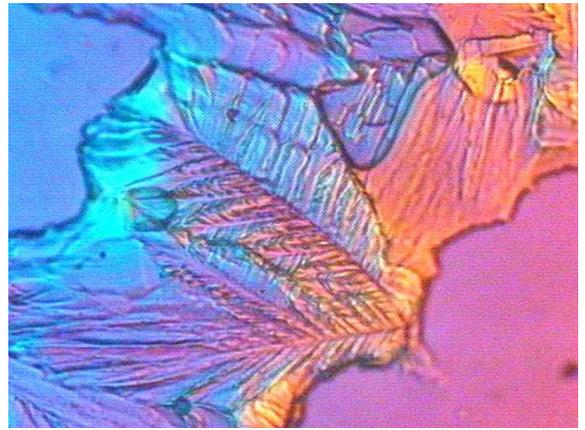
硫酸カルシウム $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



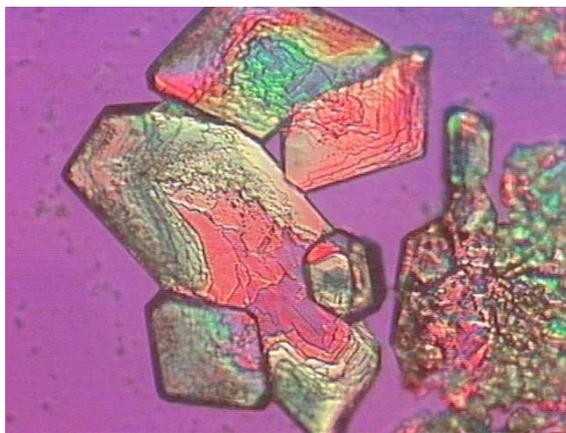
硫酸カルシウム $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



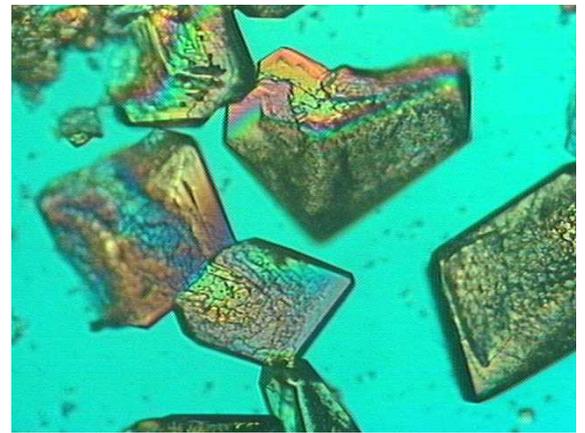
硝酸カリウム KNO_3



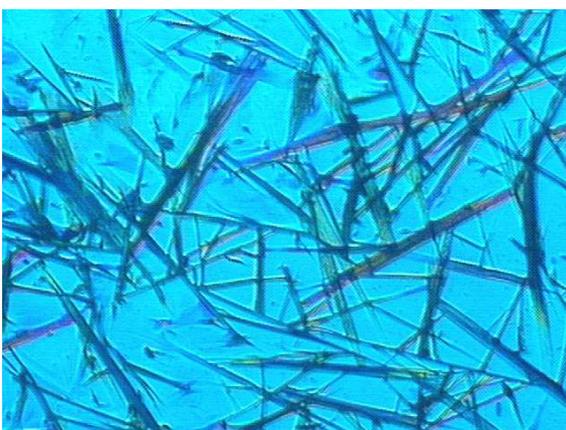
硫酸ナトリウム Na_2SO_4



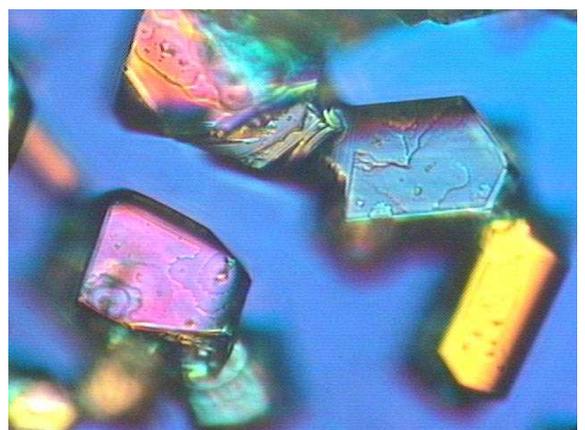
臭素酸カリウム KBrO_3



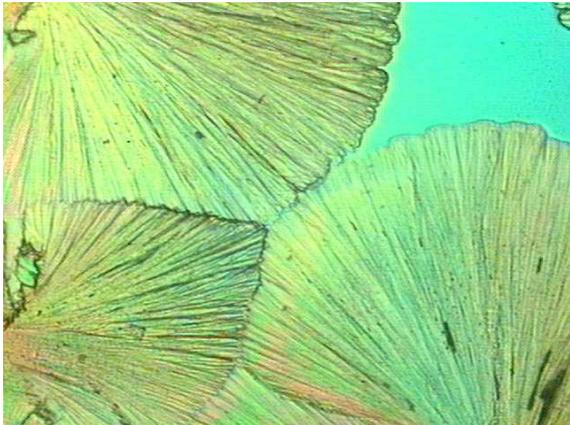
臭素酸カリウム KBrO_3



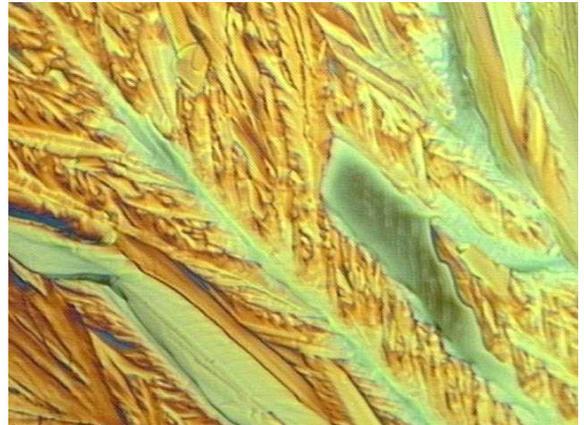
メチレンブルー $\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S} \cdot 3\text{H}_2\text{O}$



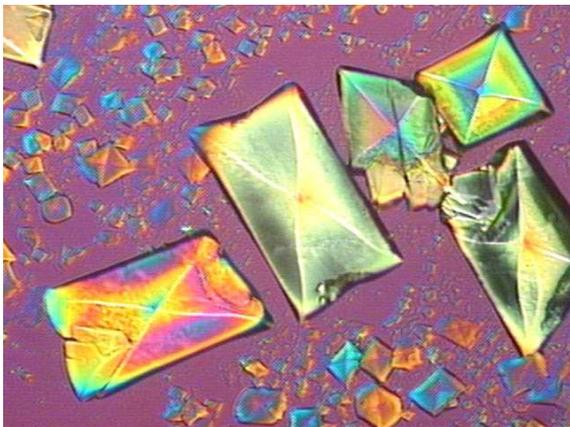
モール塩 $\text{FeSO}_4(\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$



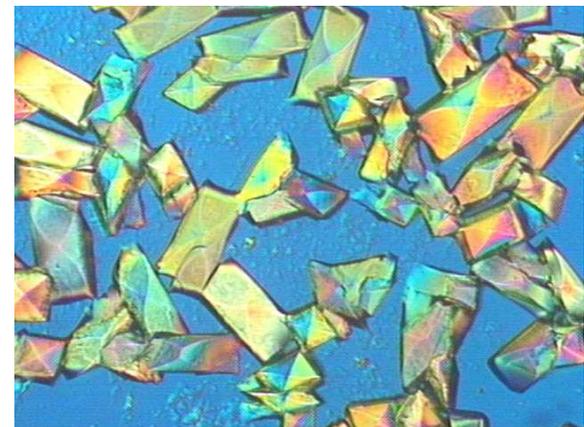
硝酸ニッケル $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$



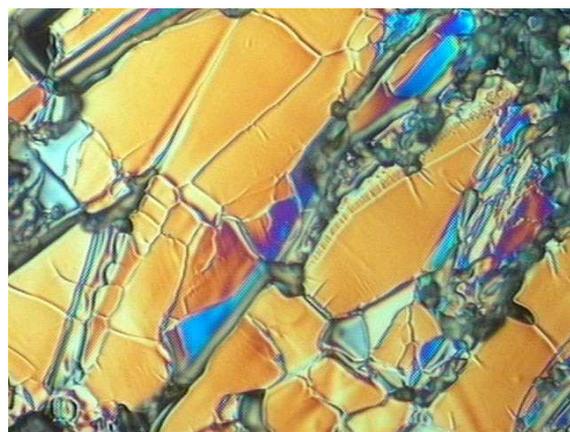
硝酸ニッケル $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$



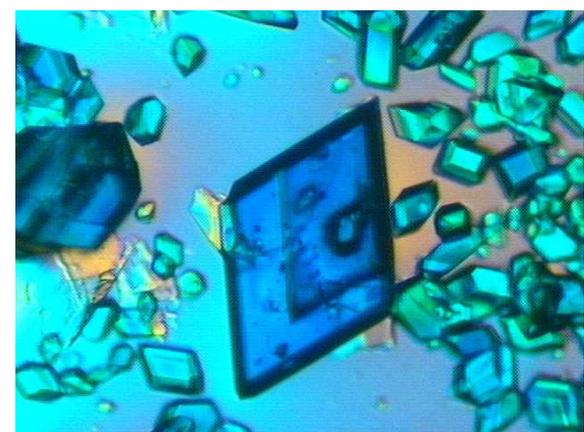
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$



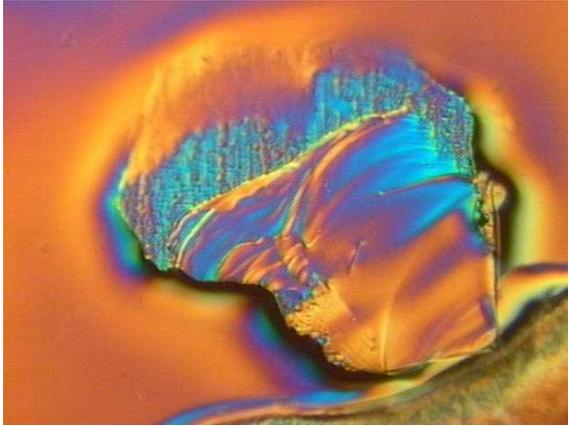
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$



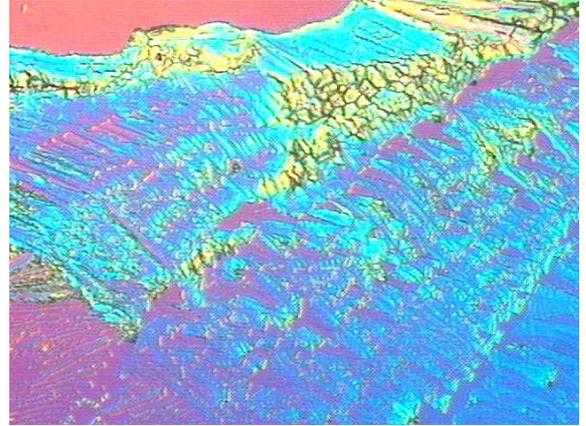
DL カンファール $\text{C}_{10}\text{H}_{16}\text{O}$



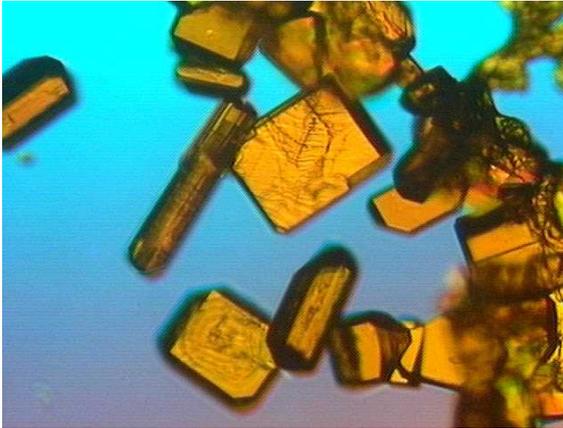
$\text{Cu}(\text{CH}_3\text{COO})_2 \cdot \text{H}_2\text{O}$



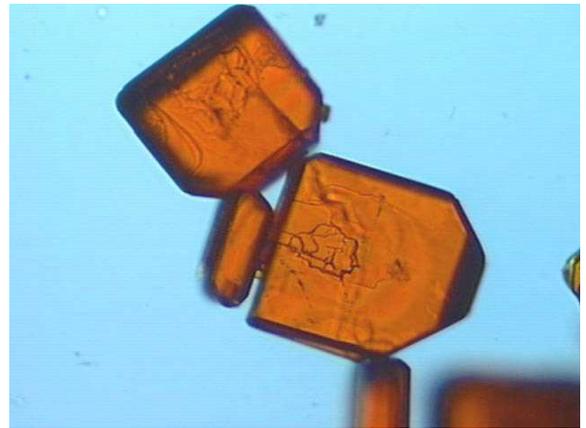
硫酸鉄 (Ⅲ) $\text{Fe}_2(\text{SO}_4)_3$



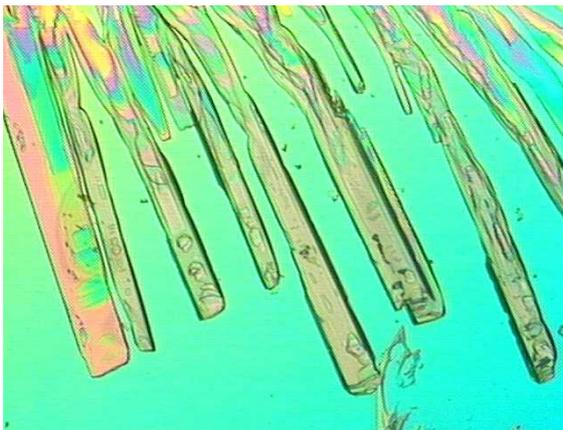
亜硝酸ナトリウム NaNO_2



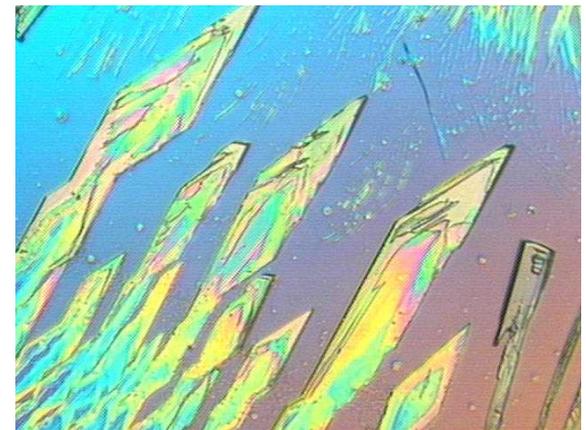
重クロム酸カリウム $\text{K}_2\text{Cr}_2\text{O}_7$



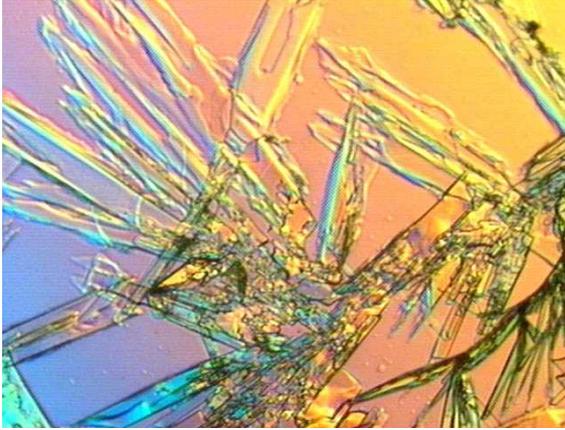
重クロム酸カリウム $\text{K}_2\text{Cr}_2\text{O}_7$



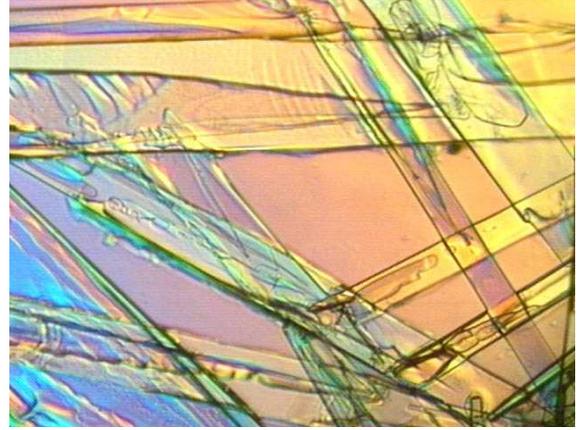
ナフタレン C_{10}H_8



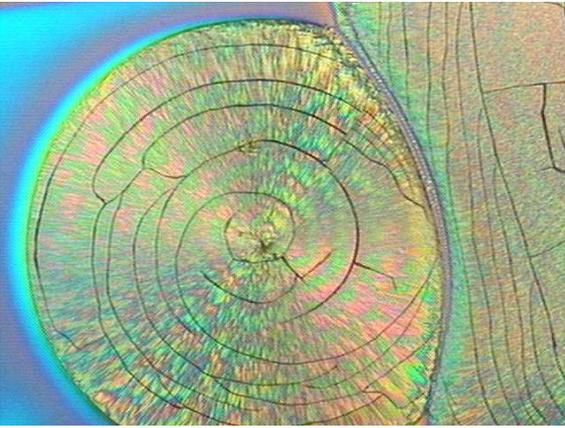
ナフタレン C_{10}H_8



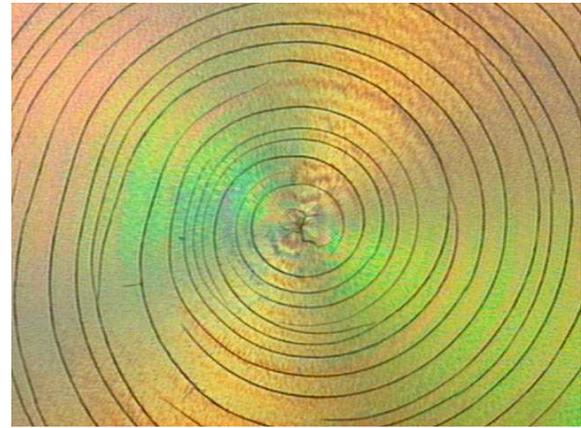
安息香酸 C_6H_5COOH



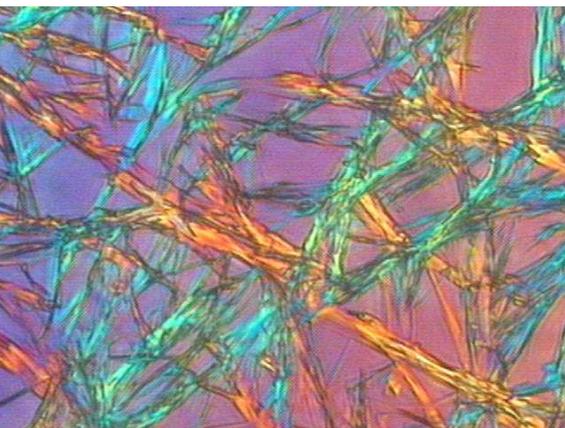
安息香酸 C_6H_5COOH



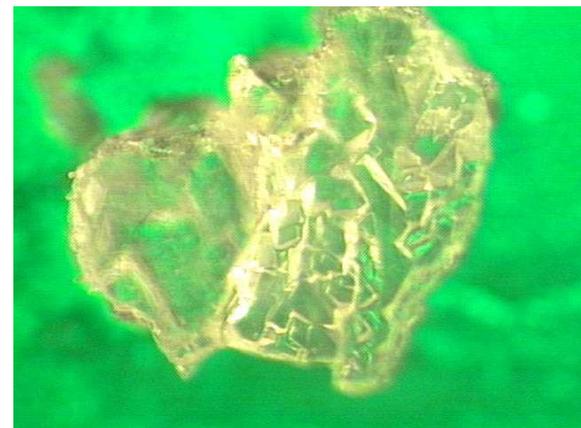
L-アスコルビン酸 $C_6H_8O_6$



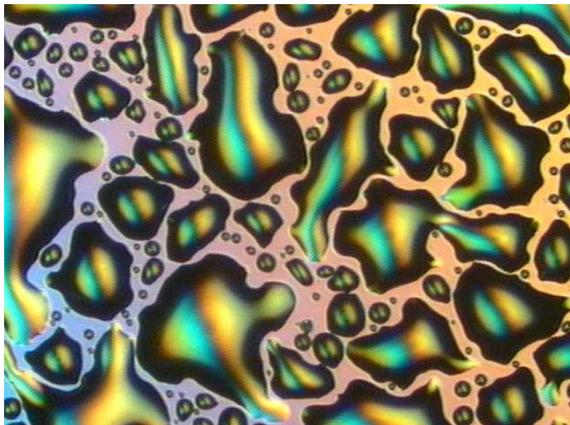
L-アスコルビン酸 $C_6H_8O_6$



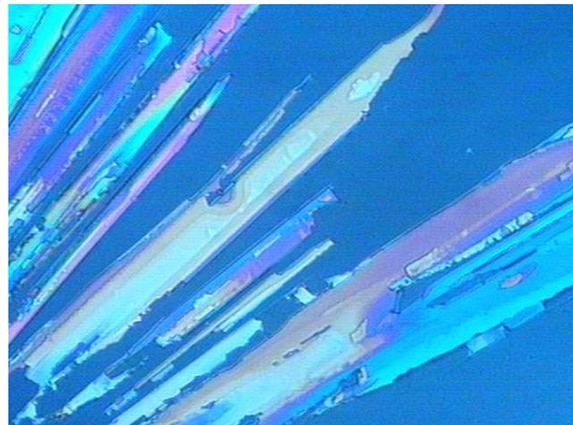
安息香酸ナトリウム C_6H_5COONa



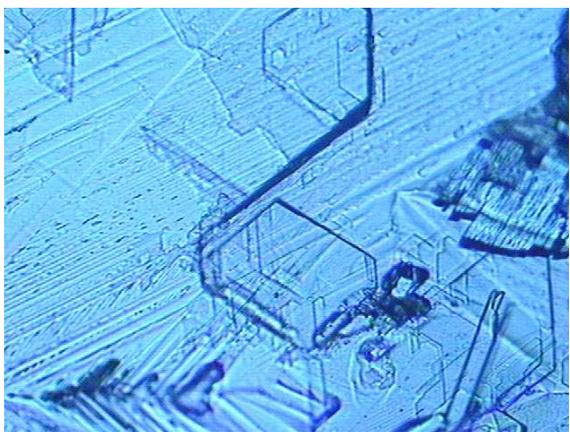
クエン酸
 $HOOCCH_2C(OH)(COOH)CH_2COOH \cdot 2H_2O$



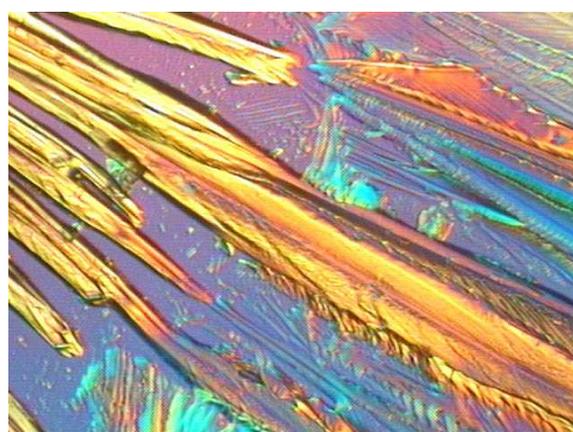
硫黄 S



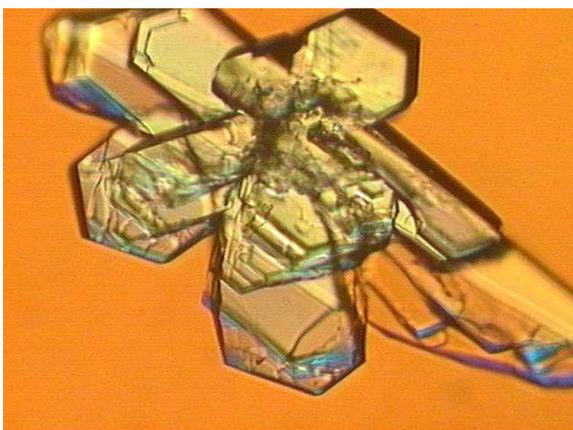
ソルビン酸 $\text{CH}_3\text{CH}=\text{CHCH}=\text{CHCOOH}$



硫酸銅 CuSO_4



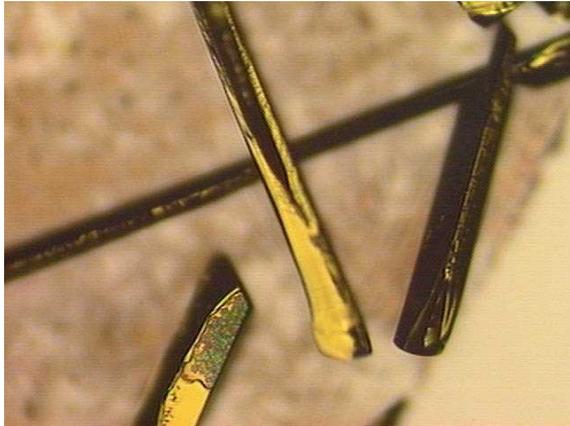
硫酸銅 CuSO_4



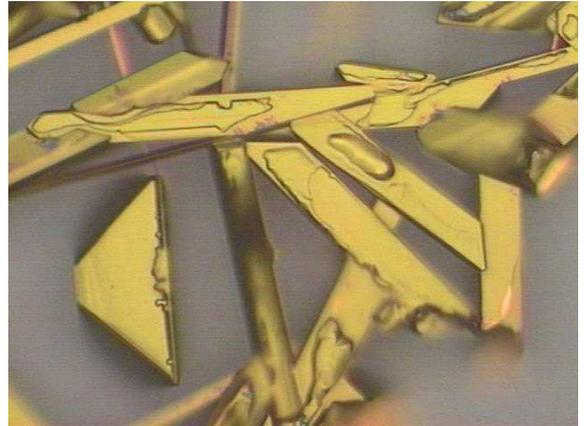
ほう酸 H_3BO_3



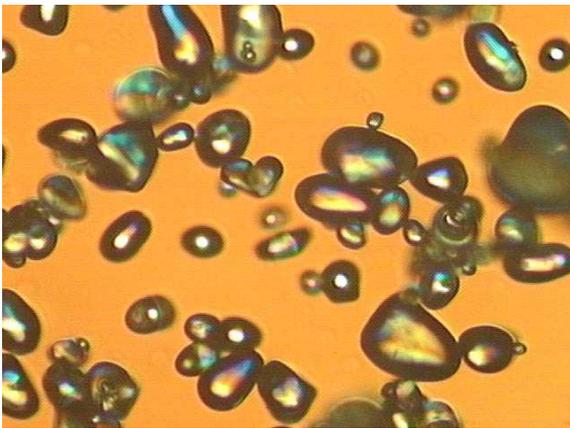
ほう酸 H_3BO_3



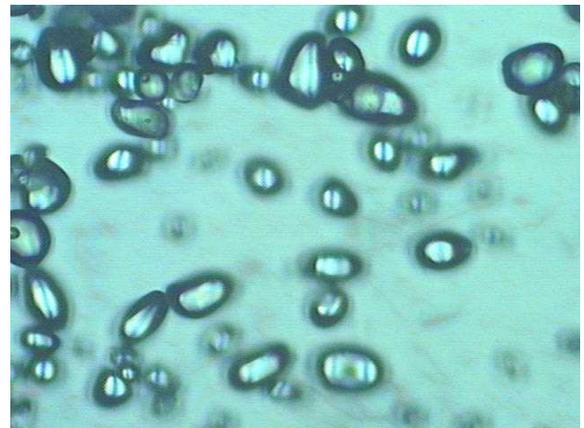
過マンガン酸カリウム KMnO_4



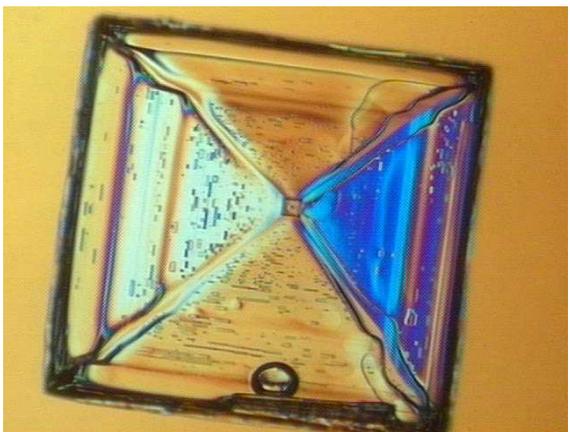
過マンガン酸カリウム KMnO_4



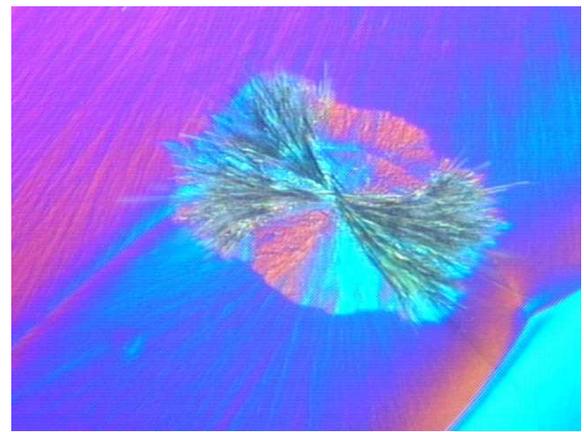
デキストリン $(\text{C}_6\text{H}_{10}\text{O}_5)_n \cdot x\text{H}_2\text{O}$



デキストリン $(\text{C}_6\text{H}_{10}\text{O}_5)_n \cdot x\text{H}_2\text{O}$

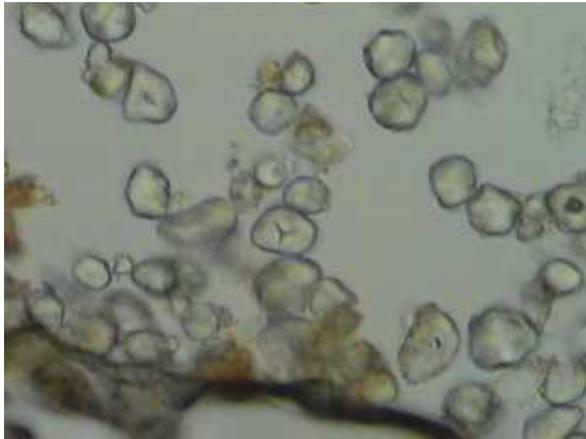


ヨウ化ナトリウム NaI

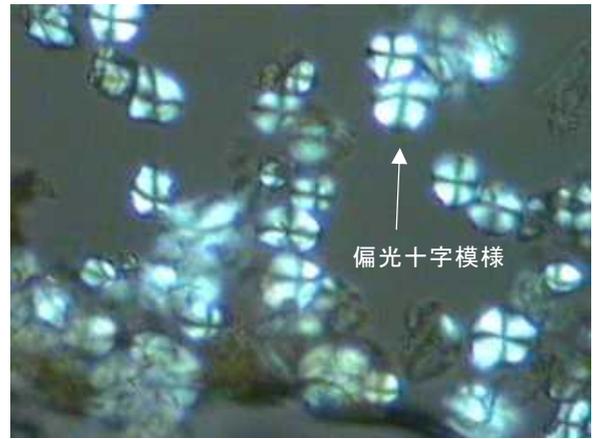


L-メントール $\text{CH}_3\text{C}_6\text{H}_9(\text{OH})\text{CH}(\text{CH}_3)_2$

2. でんぷんのクロスニコル観察



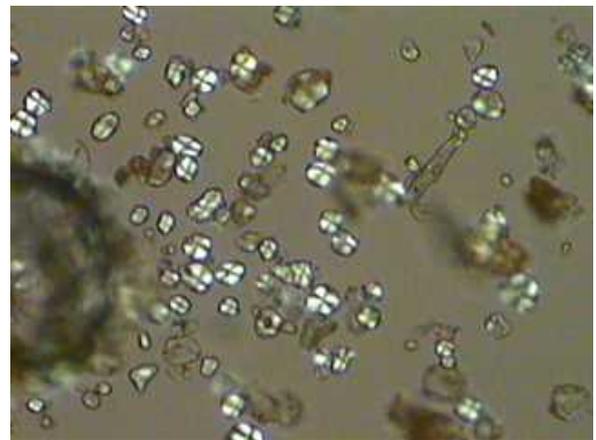
偏光なし



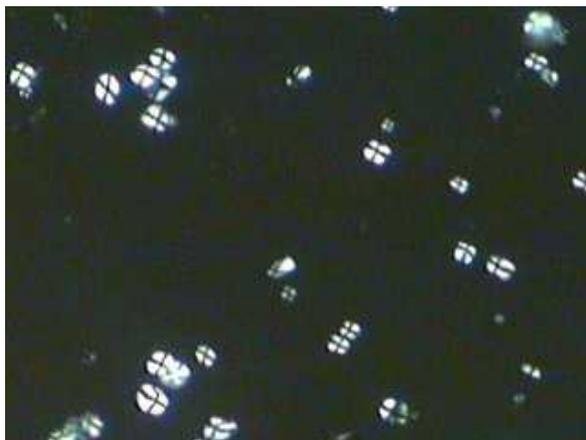
偏光あり



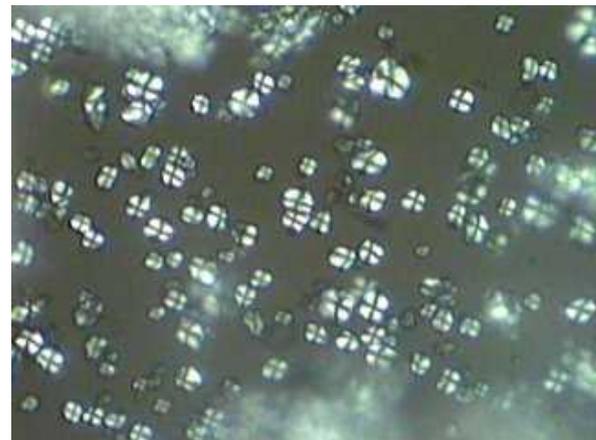
偏光なし



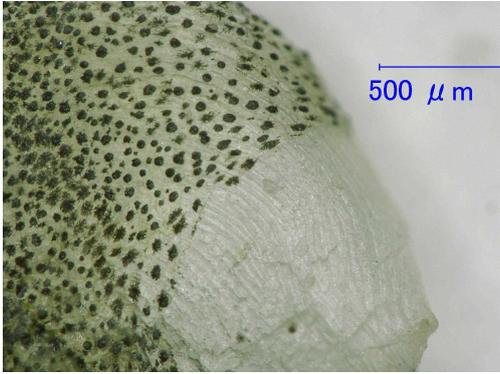
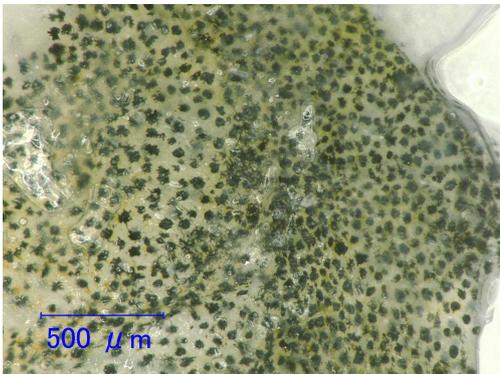
偏光あり



デンプンはクロスニコルで観察すると十字模様を示す。



3. 魚介類の皮

種類	全体像	拡大
サケ		
サケ2		