

GLY 4200C Lab 8 - Carbonates and Bicarbonates

CARBONATES

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Acid Reac.	Other Properties	Notes
CALCITE VAR. ICELAND SPAR	2-3	2.7	WHITE WHITE	3-DIR RHOMBOHEDRAL	VITREOUS	SLOW	TRANSLUCENT SW & LW YELLOW- GREEN	DOUBLE REFRACTION
CALCITE, VARIETY CHALK	~1	ND	WHITE WHITE	EVEN	DULL	FAST	LW-FAINT ORANGE	POROUS- SMALL PORES
CALCITE, VARIETY TUFA	2-3	ND	TAN TO BROWN WHITE	JAGGED	DULL	FAST	LW & SW YELLOW- ORANGE LW BRIGHTER	VERY POROUS LARGE PORES
CALCITE, VAR. TRAVERTINE	2-3	2.5	TAN WHITE	EVEN	DULL	MOD.	SW & LW YELLOW LW PHOSPHORESCENT	LAYERED
MAGNESITE	3.5-5	3.1	WHITE WHITE	UNEVEN	VITREOUS	SLOW		GRANULAR
SIDERITE	3.5-4	4.0	BROWN BROWN	1-DIR POSSIBLY MORE	CL.= VITREOUS DULL	FAST		
RHODOCHROSITE	3.5-4	3.6	PINK WHITE	UNEVEN	VITREOUS	NONE		OFTEN VUGGY
SMITHSONITE	4-4.5	(4.4)	BROWN WHITE TO TAN	UNEVEN	VITREOUS	SLOW ON SOME SURF.	LW YELLOW	LAYERED; IMPURE
DOLOMITE	3.5-4	2.9	WHITE WHITE	3-DIR RHOMBOHEDRAL	VITREOUS	NONE	LW & SW YELLOW PATCHES	LAYERED SAMPLES SHOW BLADED XTALS
ANKERITE	3.5-4	ND	BROWN WHITE	POSSIBLE BASAL	DULL	NONE	SW FAINT ORANGE LW WHITE TO ORANGE PATCHES	BLADED XTALS

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ARAGONITE	3.5-4	3	WHITE TO TAN WHITE	UNEVEN	VITREOUS	FAST		LARGE SAMPLES SHOW INTERGROWN XTALS
STRONTIANITE	3.5-4	3.7	WHITE WHITE	EVEN	VITREOUS	MOD.	LW YELLOW	
CERUSSITE	(3- 3.5)	-6.5	WHITE TO YELLOW-BROWN WHITE	UNEVEN	DULL	MOD.		SSMALL XTALS (IN JAR) SHOW CLEAVAGE
MALACHITE	3.5-4	ND	GREEN GREEN	ND	DULL	MOD.		IN SANDSTONE
AZURITE	3.5-4	ND	BLUE BLUE	UNEVEN	VITREOUS	MOD.		WITH MALACHITE

BICARBONATE

Mineral Name	H	G	<u>COLOR</u> STREAK COLOR	Cleavage, Fracture, or Parting	Luster	Acid Reaction	Other Properties	Notes
TRONA	2.5-3	2.1	BROWN WHITE	UNEVEN	WAXY	FAST	LW & SW YELLOW	