

GLY 4200C LAB 7

HALIDES

Mineral Name	H	G	<u>Color</u> / Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
HALITE	2.5	2.2	clear to milky/ clear shiny	good cubic cleavage	greasy	SW UV: pink orange; tastes salty; may be transparent to translucent	
SYLVITE	2.0	2.0	white to orange (impurity)/white	good cubic cleavage	greasy	stings tongue (bitter)	
CRYOLITE	2.5	3.0	milky/white	1D parting/ uneven fracture	vitreous to greasy	Extremely low refractive index makes powder nearly invisible in water	
FLUORITE crystals	4.0	3.2	clear to yellow/ white	? (they are unbroken)	vitreous	LW UV: faint yellowish-white in bands SW UV: brighter than LW	
FLUORITE	4.0	3.2	clear to purple/white	good octahedral cleavage	vitreous	LW UV: faint yellowish-white in bands SW UV: brighter than LW	

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SULFATES

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Other Properties	Notes
BARITE	3-3.5	4.5	GRAY/ WHITE	2D NEARLY AT 90°	VITREOUS/MAY BE PEARLY ON BASAL CLEAVAGE		
CELESTITE	3-3.5	4.0	BLUEISH-GRAY/ WHITE	2D NEARLY AT 90°	VITREOUS TO PEARLY		
ANHYDRITE	3-3.5	2.9- 3.0	BROWN/ WHITE	EVEN	VITREOUS (PEARLY ON CLEAVAGE)		
GYPHUM, VARIETY SATIN SPAR	2	2.3	WHITE/ WHITE	2D ≠ 90°	SILKY		
GYPHUM, VARIETY ALABASTER	2	2.3	WHITE/ WHITE	EVEN	DULL TO VITREOUS		
GYPHUM, VARIETY SELENITE	2	2.3	TRANSPARENT/ WHITE	3 D, MIXED	VITREOUS		
GYPHUM (MASSIVE)	2	2.3	WHITE TO PINK OR GRAY/ WHITE	UNEVEN	DULL		
ALUNITE	4	2.7	PINK TO TAN/ WHITE	EVEN (POOR BASAL CLEAVAGE)	VITREOUS TO PEARLY		
POLYHALITE	3.5	2.8	LIGHT RED/ ORANGE WHITE	EVEN	DULL	LW WHITE SPOTS	COLOR DUE TO IRON OXIDE INCLUSIONS

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BORATES

Mineral Name	H	G	<u>Color</u> Streak Color	Cleavage, Fracture, or Parting	Luster	Acid Reac.	Other Properties	Notes
KERNITE	3	2.0	WHITE WHITE	2D \neq 90°	PEARLY TO SILKY			
BORAX (ALTERED TO TINCALCONITE)	2-2.5	1.7	WHITE WHITE	EVEN	VITREOUS (TINCALC- ONITE CHALKY)			
ULEXITE	2.5 (AGG \approx 1)	2.0	WHITE WHITE	1D	SILKY		LW ORANGE ON INCLUSIONS	
COLEMANITE	4-4.5	2.4	WHITE WHITE	1D	VITREOUS		SW WHITE LW & SW YELLOW INCLUSIONS	SOME RADIATING