



Gypsum

Description

Gypsum is a soft sulfate mineral composed of calcium sulfate dehydrate, with the chemical formula $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$.

Color: Colorless to white; may be yellow, tan, blue, pink, brown, reddish brown or gray due to impurities.

Mohs scale hardness 1.5–2

Luster Vitreous to silky, pearly, or waxy, Streak White

Specific gravity (2.31–2.33), Fusibility (5), Solubility Hot, dilute HCl

ELEMENT	Type 1 Result (%)	Type 2 Result (%)	Type 3 Result (%)
$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	99.17	94.96	88.2
SiO_2	0.001	0.001	1.73
Al_2O_3	0.00	0.00	0.47
Fe_2O_3	0.15	0.12	0.27
CaO	32.28	30.91	29.87
MgO	0.59	0.94	0.37
Na_2O	0.56	0.53	0.17
K_2O	0.018	0.017	0.04
SO_3	47.01	46.01	44.80
CaSO_4	0.00	0.00	0.09
CL	0.030	0.033	0.09
CaCO_3	0.02	0.03	0.09
MgCO_3	0.001	0.02	0.07
Combined water	19.42	19.77	16.00
Free water	0.001	0.001	0.003



Users:

- Organic Chemicals.
- Pharmaceuticals Chemical.
- Cosmetic Chemical.
- Industrial Raw Material.
- Food Ingredients.
- Soil and Fertilizing.