BORATES MINERAL SOLUBILITY IN WATER

Calcium and Magnesium Borate

WATER INSOLUBLE
(0.08 g/ 100 ml)

Hydroboracite

$CaMgB_6O_{11}6H_20$

Water insoluble (0.08 g/100 ml) 48% B_2O_3 → 15%B

Calcium Borate

PARTIALLY WATER SOLUBLE
(0.47 g/ 100 ml)
<10% water soluble

Colemanite

$Ca_2B_6O_{11}5H_20$

Water insoluble (0.47 g/100 ml) 40-48% B_2O_3 → 15%B

Sodium and Calcium Borate

PARTIALLY WATER SOLUBLE
(1.09 g/100 ml)
24.5-45.5% water soluble

Ulexite

$NaCaB_5O_98H_20$

Partially water soluble (1.09 g/100 ml) 32-42% B_2O_3 → 8-15%B

Sodium Borates

WATER SOLUBLE
(2.65 g/100 ml)
100% water soluble

Tincal (Borax)

$Na_2B_4O_710H_2O$

Water soluble (2.65 g/100 ml) 35% B_2O_3 → 11%B

WATER SOLUBLE
(1.90 g/100 ml)
100% water soluble

Kernite

$Na_2B_4O_74H_2O$

Water soluble (1.90 g/100 ml) 48% B_2O_3 → 15%B

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