

Solubility Song: Rules for Solubility

(To the Tune of 99 Bottles of Beer)

Potassium, sodium and ammonium salts,
Whatever they may be
Can always be depended on
For solubility.

When asked about the nitrates,
The answer's always clear,
They each and all are soluble,
Is all we want to hear.

Most every chloride's soluble,
At least we've always read,
Save silver, mercurous mercury,
And (slightly) chloride of lead.

Every single sulfate,
Is soluble, 'tis said,
'Cept barium and calcium
And strontium and lead.

Hydroxide of metal's won't dissolve,
That is, all but three.
Potassium, sodium and ammonium
Dissolve quit readily.

And then you must remember
That you must not "forget":
Calcium and barium
Dissolve a little bit.

Metallic sulfide will not mix
With water it is true
But if you read the two above
You'll found out which ones do.

The carbonates, insoluble,
It's lucky that it's so,
Or else our marble buildings
Would melt away like snow.