



## Lithium 7 in the form of Lithium Hydroxide Monohydrate

### Description

Lithium-7 as Hydroxide Monohydrate ( $7\text{LiOH}\cdot\text{H}_2\text{O}$ ) is mainly used in the nuclear power industry as an alkalizing additive to the coolant of the primary circuit of PWR-reactors to adjust water-chemistry pH. It is also used as the main component in ion-exchange membranes in water treatment applications.

### Physical and Chemical Properties:

Material	$7\text{Li}$ in the form of $\text{LiOH}\cdot\text{H}_2\text{O}$ .
Enrichment	$7\text{Li} \geq 99.95\text{at}\%$
Total $7\text{LiOH}$ content	55 – 58 wt%
Water content	42 – 45 wt%

### Impurities fraction of total mass, %?

Pb	$\leq 0.001$
Hg	$\leq 0.00005$
Cl	$\leq 0.01$
$\text{SO}_4$	$\leq 0.01$
Na	$\leq 0.002$
Fe	$\leq 0.001$
$\text{PO}_4$	$\leq 0.05$
Si	$\leq 0.05$
Zn	$\leq 0.0005$
Insolubles	$\leq 0.1$
Lithium carbonate	$\leq 1.3$