

## LITHIUM METABORATE

LI0090 Lithium metaborate, ExpertQ®, for analysis

- $\text{LiBO}_2$
- $M = 49,75 \text{ g/mol}$
- CAS [13453-69-5]
- EINECS-No.: 236-631-5
- Solub. in water: (20 °C): almost insoluble
- Melting point: ~ 840 °C
- Tariff number: 2840 20 90 00
- Applications: analytical chemistry, laboratory reagent, for spectroscopy.

assay (acidimetric) . . . . . min. 99 %  
 chlorides (Cl) . . . . . max. 0,005 %  
 fluorides (F) . . . . . max. 0,005 %  
 phosphates (as  $\text{PO}_4$ ) . . . . . max. 0,005 %  
 silicates ( $\text{SiO}_2$ ) . . . . . max. 0,05 %  
 sulfates ( $\text{SO}_4$ ) . . . . . max. 0,01 %  
 aluminium (Al) . . . . . max. 0,002 %  
 arsenic (As) . . . . . max. 2 ppm  
 barium (Ba) . . . . . max. 0,002 %  
 cadmium (Cd) . . . . . max. 5 ppm  
 calcium (Ca) . . . . . max. 0,005 %  
 chromium (Cr) . . . . . max. 5 ppm  
 cobalt (Co) . . . . . max. 2 ppm  
 copper (Cu) . . . . . max. 5 ppm  
 iron (Fe) . . . . . max. 0,001 %

lead (Pb) . . . . . max. 2 ppm  
 magnesium (Mg) . . . . . max. 0,01 %  
 manganese (Mn) . . . . . max. 5 ppm  
 nickel (Ni) . . . . . max. 5 ppm  
 potassium (K) . . . . . max. 0,005 %  
 sodium (Na) . . . . . max. 0,01 %  
 strontium (Sr) . . . . . max. 0,001 %  
 zinc (Zn) . . . . . max. 5 ppm  
 residue on ignition . . . . . max. 1 %

ART. NO.	VOLUME	CONTAINER
LI00900100	100 g	
LI00900500	500 g	

## LITHIUM NITRATE

LI0175 Lithium nitrate, EssentQ® 

- Synonyms: Nitric acid lithium salt
- $\text{LiNO}_3$
- $M = 68,95 \text{ g/mol}$
- CAS [7790-69-4]
- EINECS-No.: 232-218-9
- Solub. in water: (20 °C): 522 g/l
- Melting point: 255 °C
- ADR: 5.1 O2 III UN 2722
- IMDG: 5.1 III UN 2722
- IATA/ICAO: 5.1 III UN 2722
- GHS-signal word: Warning
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 29 80 00
- Applications: laboratory reagent, corrosion inhibitor.
- Appearance: White crystalline powder

assay (argentometric) . . . . . min. 98 %  
 insoluble in water . . . . . max. 0,05 %  
 carbonates ( $\text{CO}_3$ ) . . . . . max. 0,005 %  
 chlorides (Cl) . . . . . max. 0,005 %  
 phosphates (as  $\text{PO}_4$ ) . . . . . max. 0,005 %  
 sulfates ( $\text{SO}_4$ ) . . . . . max. 0,05 %  
 ammonium ( $\text{NH}_4$ ) . . . . . max. 0,005 %  
 calcium (Ca) . . . . . max. 0,005 %  
 copper (Cu) . . . . . max. 0,005 %  
 iron (Fe) . . . . . max. 0,005 %  
 lead (Pb) . . . . . max. 0,005 %  
 nickel (Ni) . . . . . max. 0,005 %  
 potassium (K) . . . . . max. 0,02 %  
 sodium (Na) . . . . . max. 0,005 %

ART. NO.	VOLUME	CONTAINER
LI01750250	250 g	
LI01750500	500 g	
LI0175005P	5 kg	

## LITHIUM SULFATE MONOHYDRATE

LI0180 Lithium sulfate monohydrate, ExpertQ®, for analysis, ACS

- $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$
- $M = 127,96 \text{ g/mol}$
- CAS [10102-25-7]
- EINECS-No.: 233-820-4
- Solub. in water: (20 °C): 340 g/l
- Melting point: 120 °C
- Tariff number: 2833 29 90 00
- Applications: laboratory reagent, manufacture of glass, in building materials.

assay (acidimetric, on dried sample) . . . . . min. 99,0 %  
 insoluble in water . . . . . max. 0,01 %  
 chlorides (Cl) . . . . . max. 0,002 %  
 nitrates ( $\text{NO}_3$ ) . . . . . max. 0,001 %  
 calcium (Ca) . . . . . max. 0,005 %  
 heavy metals (as Pb) . . . . . max. 5 ppm  
 iron (Fe) . . . . . max. 5 ppm  
 potassium (K) . . . . . max. 0,05 %  
 sodium (Na) . . . . . max. 0,05 %  
 loss on drying (150 °C) . . . . . 13,0 - 15,0 %

ART. NO.	VOLUME	CONTAINER
LI01800250	250 g	
LI01800500	500 g	

## LITMUS, SOLUBLE

TO0280 Litmus, soluble, EssentQ®

- Synonyms: Lacmus, Tournesol, Lacca musica
- $M = \sim 3300 \text{ g/mol}$
- CAS [1393-92-6]
- EINECS-No.: 215-739-6
- Solub. in water: (20 °C): soluble
- Tariff number: 3203 00 19 00

- Applications: indicator

pH range (red to blue) . . . . . 4,5 - 8,3

ART. NO.	VOLUME	CONTAINER
TO02800025	25 g	
TO02800250	250 g	