

TECHNICAL DATA SHEET

Date of Issue: 2017/01/09

Lithium Bromide, typ. 30 % solution in THF (typ. 4.1 M)

CAS-No.	7550-35-8
EC-No.	231-439-8
REACH No.	01-2119970708-24
Molecular Formula	LiBr
Product Number	408526

APPLICATION

The LiBr/THF solution was developed mainly for application in organic synthesis, especially as an additive for organometallic transformations. Lithium salts can alter the selectivity and kinetics of organometallic conversions. In combination with transition metal salts an efficient catalyst for cross-coupling reactions can be formed.

References:

Charette, A: in Encyclopedia of Reagents for Organic Synthesis, Paquette, L.A., Ed., John Wiley and Sons: New York (1995), Vol. 5, 3049.

Wietelmann, U. in Science of Synthesis, Vol. 8a, Majewski, M.; Snieckus, V-. Vol. Eds., Georg Thieme Verlag, Stuttgart, New York (2006), pp 139 – 164.

FURTHER INGREDIENTS

Tetrahydrofuran

CAS-No.	109-99-9
EC-No.	203-726-8

SPECIFICATION

LiBr: 29 – 31 %

METHOD OF ANALYSIS

Determination of assay by argentometric titration of bromide; detailed description available on request.

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Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.



PHYSICAL PROPERTIES

Appearance	clear or light turbid liquid
Color	yellowish to pink
Crystallization temperature	< 10 °C
Flash point	-21.2 °C (Tetrahydrofuran)
Boiling point/boiling range	66 °C (Tetrahydrofuran)
Density	ca. 1.18 g/cm ³ at 20 °C
Molecular weight	86.85 g/mol
Thermal Stability	Crystallization below 10 °C

HANDLING & STORAGE

Handling	Under exclusion of air and humidity stable over practically unlimited periods. THF can form explosive peroxides in contact with air. Storage and handling under inert gas is recommended.
Storage	As LiBr tends to crystallize from the solution material should be stored above 15 °C. Pay attention to official safety regulations (see also: "Transport regulations" and "Marking").

TRANSPORT & PACKAGING

UN number 2056

ADR	Class: 3	PG: II	Label: 3
RID	Class: 3	PG: II	Label: 3
IMDG	Class: 3	PG: II	Label: 3
IATA_C	Class: 3	PG: II	Packing instruction (cargo aircraft): 364
IATA_P	Class: 3	PG: II	Packing instruction (passenger aircraft): 353

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Hazard pictograms



Signal Word Danger

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

Glass bottles of 100, 250, 500, and 1,000 ml. Steel bottles with volumes of 7.4, 27, 127 or 450 l. Steel drums up to 200 l. For safety reasons these are filled to a maximum of 90 %.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

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