

TECHNICAL DATA SHEET

Date of Issue: 2025/02/04

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

CAS-No.	7550-35-8
EC-No.	231-439-8
REACH No.	01-2119970708-24-0001 01-2119970708-24-0002
Molecular formula	Br-Li
Product number	10001781, 10001782, 10001783, 10001784

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.

SPECIFICATION

LiBr: 29,0 – 31,0 %

METHOD OF ANALYSIS

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

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PHYSICAL PROPERTIES

Appearance	liquid
Color	clear slight cloudy yellow to pink
Crystallization temperature	< 10 °C
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (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	THF can form explosive peroxides in contact with air. Storage and handling under inert gas is recommended. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Flash back possible over considerable distance. Take measures to prevent the build up of electrostatic charge. Use only explosion-proof equipment. Protect from frost, heat and sunlight. Never add oxidizing materials.
Storage	As LiBr tends to crystallize from the solution material should be stored above 15 °C. When stored according to SDS the material is fairly stable. We still recommend to retest the material 6 month after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation. Pay attention to official safety regulations (see also: "Transport regulations" and "Marking").

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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

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

Steel bottles with volumes of 7.4, 127 and 450 L. For safety reasons these are filled to a maximum of 90 %.
Steel drums 200 L.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

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