Safety data for lithium carbonate



Click here for data on lithium carbonate in <u>student-friendly format</u>, from the <u>HSci</u> project

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: dilithium carbonate, carbonic acid lithium salt

Molecular formula: Li₂CO₃

CAS No: 554-13-2 EC No: 209-062-5

PubChem substance ID: 24882220

Physical data

Appearance: white crystalline powder

Melting point: 720 C

Boiling point: Vapour density: Vapour pressure: Density (g cm⁻³): 2.11

Flash point:

Explosion limits:

Autoignition temperature: Water solubility: moderate

Stability

Stable. Moisture sensitive. Incompatible with fluorine, water, strong acids.

Toxicology

Harmful if swallowed or inhaled. May be harmful in contact with skin. Irritant.

Toxicity data

(The meaning of any abbreviations which appear in this section is given here.)

ORL-RAT LD50 525 mg kg⁻¹ IPR-RAT LD50 156 mg kg⁻¹ SCU-RAT LD50 434 mg kg⁻¹ IVN-RAT LD50 241 mg kg-1

Risk phrases

(The meaning of any risk phrases which appear in this section is given here.)

R20 R22 R36 R37 R38.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)

Non-hazardous for air, sea and road freight.

Personal protection

Safety glasses. Do not breathe dust.

Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

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Specification:

Item	Standard
Li2CO3	99.0% min
Insoluble matters in HCI	0.01% max
CaO	0.03% max
Fe2O3	0.001% max
В	0.0003% max
SO4	0.04% max
Na	0.04% max
K	0.003% max
Mg	0.005% max
H2O	0.4% max
CI	0.01% max

Packing:

In 25kg pp woven bag lined with plastic bag