

Safety data for N-acetyl-L-(+)-cysteine

[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: N-acetyl-L-cysteine, acetylcysteine, mercapturic acid, LNAC, NAC, airbron, broncholysin, fluimucetin, fluimucil, fluimicil, infantil, inspir, mucofilin, mucolyticum, lappe, mucomyst, mucosolvin, parvolex, respaire

Molecular formula: $\text{HSCH}_2\text{CH}(\text{NHCOCH}_3)\text{COOH}$

CAS No: 616-91-1

EC No: 210-498-3

Physical data

Appearance: white powder

Melting point: 110 C

Boiling point:

Vapour density:

Vapour pressure:

Density (g cm^{-3}):

Flash point:

Explosion limits:

Autoignition temperature:

Water solubility: 200 g/l

Stability

Stable. Incompatible with strong oxidizing agents.

Toxicology

Not hazardous according to Directive 67/548/EEC.

Toxicity data

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

ORL-RAT LD50 5050 mg kg⁻¹

IVN-RAT LD50 1140 mg kg⁻¹

ORL-MUS LD50 7888 mg kg⁻¹

IPR-MUS LD50 400 mg kg⁻¹

IVN-MUS LD50 3800 mg kg⁻¹

Risk phrases

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

Transport information

Non-hazardous for air, sea and road freight.

Personal protection

Minimise exposure.

Safety phrases

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

S22 S24 S25.

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

This information was last updated on April 4, 2007. We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.

Note also that the information on the PTCL Safety web site, where this page was hosted, has been copied onto many other sites, often without permission. If you have any doubts about the veracity of the information that you are viewing, or have any queries, please check the URL that your web browser displays for this page. If the URL **begins** "http://ptcl.chem.ox.ac.uk/" or "http://physchem.ox.ac.uk/" the page is maintained by the Safety Officer in Physical Chemistry at Oxford University. If not, this page is a copy made by some other person and we have no responsibility for it.
