



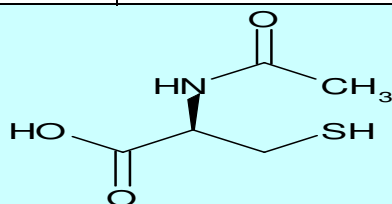
SDFCL
s d fine-CHEM limited
Quality Control Dept.



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Product Specification

E Control	QC2\DATAD\D:\PS\34001XPS.xls
PRODUCT CODE	34001
PRODUCT NAME	N-ACETYL-L-CYSTEINE (for Biochemistry) meets analytical specifications of BP, USP, Ph Eur
SYNONYMS	(2-Acetamido-3-mercaptopropionic acid)
C.I. NO.	--
CASR NO.	(616-91-1)
ATOMIC OR MOLECULAR FORMULA	C ₅ H ₉ NO ₃ S
ATOMIC OR MOLECULAR WEIGHT	163.20
PROPERTIES	Light sensitive.



PARAMETER	LIMIT
Description	White to almost white crystalline powder or crystals.
Solubility	Freely soluble in water and in ethanol (96%), practically insoluble in methylene chloride.
Appearance of solution	5% solution in water is clear.
Identification	Passes tests.
Assay (HPLC, on dried subs.)	99.0-101.0 %
Melting point	106° - 110°C
pH of 2% solution in water	2.0 - 2.8
Specific optical rotation (on dried sub., pH 7.0)	+ 21.0° to +27.0°
Loss on drying	Max. 1.0%
Sulphated ash	Max. 0.2%
Relates subs. (by HPLC)	Passes tests.
MAXIMUM LIMIT OF IMPURITIES	
Ammonium (NH ₄)	0.02%
Heavy metals (as Pb)	0.001%
Zinc (Zn)	0.001%

Note(s) : Assay (if applicable) method mentioned.

WARNING

Hazard statements : May be harmful if swallowed.

Precautionary statements

Prevention : -----

Response : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal : Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities

Hazard Pictogram(s) :--

IMDG Code :--
UN No. : --
IATA : --

Prepared By :
Name/Dept. : Officer (Q.A.)
Sign. :
Date : 01.01.2013

Checked By:
Name/Dept.:Incharge(Q.A.)
Sign. :
Date : 01.01.2013

Approved By:
Name/Dept. : Incharge (Tech.)
Sign. :
Date : 10.01.2013

Issue Date : 05.05.2005
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