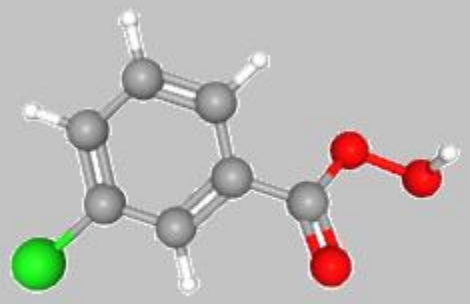


PRODUCT IN FOCUS

3-Chloroperoxybenzoic acid (MCPBA)

INTRODUCTION

3-Chloroperoxybenzoic acid (MCPBA) is a peroxycarboxylic acid. A white solid, it is used widely as an oxidant in organic synthesis. MCPBA is often preferred to other peroxy acids because of its relative ease of handling.

Manufacture

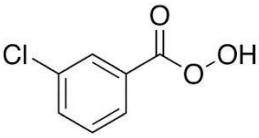
MCPBA can be prepared by reacting m-Chlorobenzoyl chloride with a basic solution of hydrogen peroxide, followed by acidification.

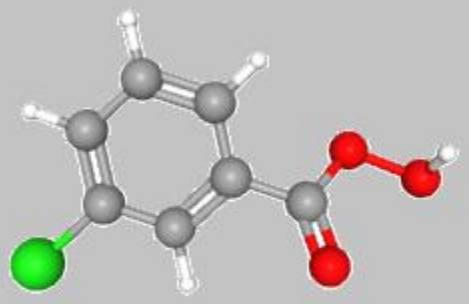
Applications

MCPBA is versatile applicable as peracid for use in laboratories.

Main areas are the oxidation of:

- aldehydes and ketones to esters (Bayer-Villiger-Oxidation)
- olefines to epoxides
- sulfides to sulfoxides and sulfones
- amines to nitroalkanes, nitroxides or N-oxides

Synonyms	3-Chlorobenzenecarboperoxoic acid
CAS no.	937-14-4
EINECS no.	213-322-3
Molecular formula	$C_7H_5ClO_3$
Molecular weight	172.57
Structure	



PRODUCT IN FOCUS

SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to off white moist crystalline powder with lumps
Color	-	Colorless
Clarity	-	Clear to slightly hazy
3-Chloro per benzoic acid (by Iodometry)	%	Min 70.0
3-Chloro benzoic acid	%	Max 12.0
m-Chlorobenzoyl peroxide (by HPLC)	%	Max 0.2
Water (by KF)	%	Balance

STORAGE

Due to relatively unstable nature of organic peroxide a loss of quality can be detected over a period. To minimize the loss of quality, recommended maximum storage temperature (Ts max.) for each peroxide. Ts max.: 2 - 8°C)

PACKING

20 kg UN approved drum.

REACH status

MCPBA offered by ExSyn is registered under EU REACH regulations.

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.