

CR 39

Chemical Properties

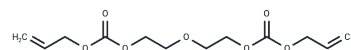
CAS No. : 25656-90-0

Formula: (C₁₂H₁₈O₇)_x

Molecular Weight: 274.27

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	CR 39, a plastic, can be used as a charged particle detector for superimposed autoradiography tissue images.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.646 mL	18.2302 mL	36.4604 mL
5 mM	0.7292 mL	3.646 mL	7.2921 mL
10 mM	0.3646 mL	1.823 mL	3.646 mL
50 mM	0.0729 mL	0.3646 mL	0.7292 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Milenkovic B, Stevanovic N, Krstic D, Nikezic D. Neutron detection by a CR-39 detector and analysis of proton tracks etched in the same and opposite directions. *Radiat Prot Dosimetry*. 2014 Oct;161(1-4):108-11. doi: 10.1093/rpd/nct321. Epub 2013 Dec 8. PubMed PMID: 24324253.

Franci D, Aureli T, Cardellini F. Study of ageing and fading in CR-39 detectors for different storage conditions. *Radiat Prot Dosimetry*. 2015 Dec;167(4):425-8. doi: 10.1093/rpd/ncu360. Epub 2014 Dec 19. PubMed PMID: 25527181.

Sahoo GS, Tripathy SP, Paul S, Sharma SC, Joshi DS, Gupta AK, Bandyopadhyay T. Effects of high neutron doses and duration of the chemical etching on the optical properties of CR-39. *Appl Radiat Isot*. 2015 Jul;101:114-121. doi: 10.1016/j.apradiso.2015.04.002. Epub 2015 Apr 9. PubMed PMID: 25889876.

Sahoo GS, Paul S, Tripathy SP, Sharma SC, Jena S, Rout S, Joshi DS, Bandyopadhyay T. Effects of neutron irradiation on optical and chemical properties of CR-39: Potential application in neutron dosimetry. *Appl Radiat Isot*. 2014 Dec;94:200-205. doi: 10.1016/j.apradiso.2014.08.012. Epub 2014 Aug 28. PubMed PMID: 25218462.

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