



>>Entry Name: 10,12-Pentacosadiynoic acid, 9CI

CAS Registry Number: 66990-32-7

$\text{H}_3\text{C}(\text{CH}_2)_{10}\text{CH}_2\text{C}\equiv\text{C}-\text{C}\equiv\text{CCH}_2(\text{CH}_2)_6\text{CH}_2\text{COOH}$

Molecular Formula: $\text{C}_{25}\text{H}_{42}\text{O}_2$

Molecular Weight: 374.606

Accurate Mass: 374.31848

Percentage Composition: C 80.16%; H 11.30%; O 8.54%

Use/Importance: Intermed. to the prep. of polymeric multilayer films

Physical Description: Cryst. (hexane)

Melting Point: Mp 61-62°

>>Derivative: Chloride

CAS Registry Number: 128937-83-7

Molecular Formula: $\text{C}_{25}\text{H}_{41}\text{ClO}$

Molecular Weight: 393.051

Accurate Mass: 392.284592

Percentage Composition: C 76.40%; H 10.51%; Cl 9.02%; O 4.07%

Melting Point: Mp *ca.* 30°

References:

Tieke, B. *et al.*, *J. Polym. Sci., Polym. Chem. Ed.*, 1979, **17**, 1631-1644, (*synth, props*)

Usov, O.M. *et al.*, *Izv. Akad. Nauk, Ser. Khim.*, 1995, 2009-2012; *Russ. Chem. Bull. (Engl. Transl.)*, 1995, 1929-1932, (*synth, chloride*)

Shirai, E. *et al.*, *J. Phys. Chem. B*, 1998, **102**, 3765-3772, (*props, bibl*)