



>>Entry Name: Didodecanoyl peroxide

Synonym(s): Bis(1-oxododecyl) peroxide, 9CI. Lauroyl peroxide, 8CI. Dilauroyl peroxide

CAS Registry Number: 105-74-8

$\text{H}_3\text{C}(\text{CH}_2)_{10}\text{CO-O-O-CO}(\text{CH}_2)_{10}\text{CH}_3$

Molecular Formula: $\text{C}_{24}\text{H}_{46}\text{O}_4$

Molecular Weight: 398.625

Accurate Mass: 398.33961

Percentage Composition: C 72.31%; H 11.63%; O 16.05%

Use/Importance: Polym. initiator. Cross-linking agent

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 54.5-55°

Solubility: Insol. H_2O ; sol. most org. solvs.

Aldrich: 29078-5

Fluka: 61740

References:

Minkoff, G.J. *et al.*, *Proc. R. Soc. London*, 1954, **A224**, 176, (*ir*)

Silbert, L.S. *et al.*, *J.A.C.S.*, 1959, **81**, 2364, (*synth*)

Swern, D. *et al.*, *Anal. Chem.*, 1969, **41**, 412, (*pmr*)