



>>Entry Name: **2,2-Bis(*tert*-butylperoxy)butane**

Synonym(s): (1-Methylpropylidene)bis[(1,1-dimethylethyl)peroxide], 9CI. *sec*-Butylidenebis(*tert*-butyl peroxide), 8CI

CAS Registry Number: 2167-23-9

$\text{H}_3\text{CCH}_2\text{C}(\text{CH}_3)[\text{OOC}(\text{CH}_3)_3]_2$

Molecular Formula: $\text{C}_{12}\text{H}_{26}\text{O}_4$

Molecular Weight: 234.335

Accurate Mass: 234.18311

Percentage Composition: C 61.51%; H 11.18%; O 27.31%

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

Physical Description: Liq.

Boiling Point: Bp₂ 50°

Refractive Index: n_D²⁰ 1.4140

Aldrich: 44169-4

References:

Dickey, F.H., *Ind. Eng. Chem.*, 1949, **41**, 1673; 1679, (*synth, use*)

Dickey, F.H., *J.A.C.S.*, 1949, **71**, 1432, (*synth*)