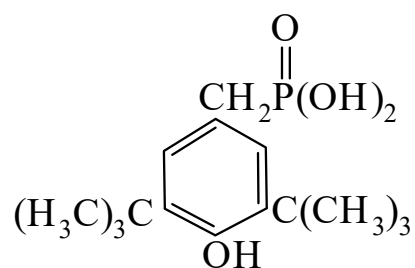




>>Entry Name: (3,5-Di-*tert*-butyl-4-hydroxybenzyl)phosphonic acid, 8Cl

Synonym(s): [[3,5-Bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]phosphonic acid, 9Cl. 2,6-Di-*tert*-butyl-4-(phosphonomethyl)phenol



CAS Registry Number: 10175-90-3

Molecular Formula: C₁₅H₂₅O₄P

Molecular Weight: 300.334

Accurate Mass: 300.149047

Percentage Composition: C 59.99%; H 8.39%; O 21.31%; P 10.31%

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 208-210°

>>Derivative: Di-Me ester

Synonym(s): Dimethyl (3,5-di-*tert*-butyl-4-hydroxybenzyl)phosphonate

Molecular Formula: C₁₇H₂₉O₄P

Molecular Weight: 328.387

Accurate Mass: 328.180347

Percentage Composition: C 62.18%; H 8.90%; O 19.49%; P 9.43%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 158°

>>Derivative: Di-Et ester

Synonym(s): Diethyl [(3,5-di-*tert*-butyl-4-hydroxyphenyl)methyl]phosphonate. Irganox 1222A

CAS Registry Number: 976-56-7

Use/Importance: Stabilizer for polymers

Physical Description: Cryst. (petrol)

Melting Point: Mp 115-116°

Boiling Point: Bp_{0.05} 172-176°

Rare Chemicals Library: S27888-2

>>Derivative: Diisopropyl ester

Synonym(s): Diisopropyl (3,5-di-*tert*-butyl-4-hydroxybenzyl)phosphonate

CAS Registry Number: 980-17-6

Molecular Formula: C₂₁H₃₇O₄P

Molecular Weight: 384.495

Accurate Mass: 384.242947

Percentage Composition: C 65.60%; H 9.70%; O 16.64%; P 8.06%

Physical Description: Cryst. (petrol)

Melting Point: Mp 105°

>>Derivative: Dibutyl ester

Synonym(s): Dibutyl (3,5-di-*tert*-butyl-4-hydroxybenzyl)phosphonate

CAS Registry Number: 10193-93-8

Molecular Formula: C₂₃H₄₁O₄P

Molecular Weight: 412.548

Accurate Mass: 412.274247

Percentage Composition: C 66.96%; H 10.02%; O 15.51%; P 7.51%

Physical Description: Cryst.

Melting Point: Mp 137-139°