



Accurate Mass: 642.39541
Percentage Composition: C 70.99%; H 9.09%; O 14.93%; S 4.99%
Use/Importance: Antioxidant for polymers

>>**Derivative:** Ester with triethyleneglycol (2:1)

CAS Registry Number: 34569-49-8
Molecular Formula: C₄₀H₆₂O₈
Molecular Weight: 670.925
Accurate Mass: 670.44447
Percentage Composition: C 71.61%; H 9.31%; O 19.08%
Use/Importance: Antioxidant for polymers

>>**Derivative:** Ester with pentaerythritol (4:1)

Synonym(s): Neopentantetrayl tetrakis[3-(3,5-di-*tert*-butyl)-4-hydroxyphenyl]propionate. Irganox 1010. Irganox 1040. Naugard 10

CAS Registry Number: 6683-19-8
Molecular Formula: C₇₃H₁₀₈O₁₂
Molecular Weight: 1177.649
Accurate Mass: 1176.78408
Percentage Composition: C 74.45%; H 9.24%; O 16.30%
Use/Importance: Antioxidant for polymers
Melting Point: Mp 119-122°
Other Data: Softens at 50-60°

Aldrich: 44178-3

>>**Derivative:** Chloride

CAS Registry Number: 3062-64-4
Molecular Formula: C₁₇H₂₅ClO₂
Molecular Weight: 296.836
Accurate Mass: 296.154307
Percentage Composition: C 68.79%; H 8.49%; Cl 11.94%; O 10.78%
Physical Description: Cryst. (petrol)
Melting Point: Mp 71-74°

>>**Derivative:** Amide

CAS Registry Number: 34249-71-3
Molecular Formula: C₁₇H₂₇NO₂
Molecular Weight: 277.406
Accurate Mass: 277.204179
Percentage Composition: C 73.61%; H 9.81%; N 5.05%; O 11.54%
Melting Point: Mp 152.5-153.5°

>>**Derivative:** Hydrazide

CAS Registry Number: 32687-77-7
Molecular Formula: C₁₇H₂₈N₂O₂
Molecular Weight: 292.42
Accurate Mass: 292.215078
Percentage Composition: C 69.83%; H 9.65%; N 9.58%; O 10.94%
Use/Importance: Antioxidant for polymers

>>**Derivative:** [(3,5-Di-*tert*-butyl-4-hydroxyphenyl)propanoyl]hydrazide

Synonym(s): Irganox 1024

CAS Registry Number: 32687-78-8
Molecular Formula: C₃₄H₅₂N₂O₄
Molecular Weight: 552.796
Accurate Mass: 552.392708
Percentage Composition: C 73.87%; H 9.48%; N 5.07%; O 11.58%
Use/Importance: Antioxidant for polymers