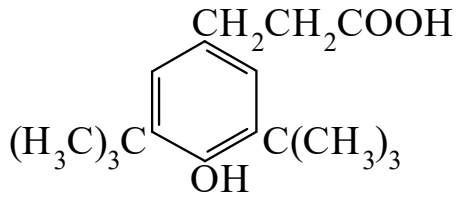
>>**Entry Name: 3-(3,5-Di-*tert*-butyl-4-hydroxyphenyl)propanoic acid**
Synonym(s): 3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, 9CI. 3,5-Di-*tert*-butyl-4-hydroxyhydrocinnamic acid, 8CI



CAS Registry Number: 20170-32-5

Molecular Formula: $C_{17}H_{26}O_3$
Molecular Weight: 278.391
Accurate Mass: 278.188195
Percentage Composition: C 73.35%; H 9.41%; O 17.24%
Use/Importance: Esters used as stabilisers and antioxidants in manuf. of polymers
Physical Description: Needles (EtOH aq.) or (C_6H_6/cyclohexane)
Melting Point: Mp 173-175° (172-173°)

Rare Chemicals Library: S4732-6

>>**Derivative:** Me ester
CAS Registry Number: 6386-38-5
Molecular Formula: $C_{18}H_{28}O_3$
Molecular Weight: 292.417
Accurate Mass: 292.203845
Percentage Composition: C 73.93%; H 9.65%; O 16.41%
Melting Point: Mp 66-66.5°

>>**Derivative:** Octadecyl ester
Synonym(s): Irganox 1076. Irganox 1976. Naugard 76

CAS Registry Number: 2082-79-3
Molecular Formula: $C_{35}H_{62}O_3$
Molecular Weight: 530.873
Accurate Mass: 530.469895
Percentage Composition: C 79.19%; H 11.77%; O 9.04%
Use/Importance: Antioxidant used in manuf. of polymers
Physical Description: Cryst. (MeOH/EtOAc)
Melting Point: Mp 49-50°
Aldrich: 36707-9

>>**Derivative:** Ester with 1,6-hexanediol (2:1)
Synonym(s): Irganox 249. Irganox 259

CAS Registry Number: 35074-77-2
Molecular Formula: $C_{40}H_{62}O_6$
Molecular Weight: 638.926
Accurate Mass: 638.45464
Percentage Composition: C 75.19%; H 9.78%; O 15.02%
Use/Importance: Antioxidant for polymers
Physical Description: Off-white powder
Melting Point: Mp 101°

>>**Derivative:** Ester with diethylene glycol (2:1)

CAS Registry Number: 38879-22-0
Molecular Formula: $C_{38}H_{58}O_7$
Molecular Weight: 626.872
Accurate Mass: 626.418255
Percentage Composition: C 72.81%; H 9.33%; O 17.87%
Use/Importance: Antioxidant for polymers
Melting Point: Mp 90-91.5°