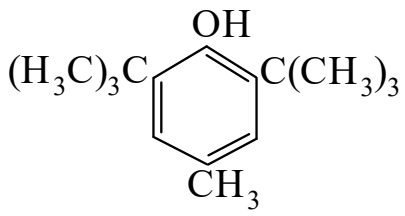
>>**Entry Name: 2,6-Di-*tert*-butyl-4-methylphenol**
Synonym(s): 2,6-Bis(1,1-dimethylethyl)-4-methylphenol, 9CI. 2,6-Di-*tert*-butyl-*p*-cresol, 8CI. Butylated hydroxytoluene. Ionol. BHT. Popol



CAS Registry Number: 128-37-0
Related CAS Registry Numbers(s): 6858-01-1
Extra CAS Registry Numbers(s): 30587-81-6

Molecular Formula: $C_{15}H_{24}O$
Molecular Weight: 220.354
Accurate Mass: 220.182715
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Use/Importance: Antioxidant, used in cosmetics, foods and pharmaceuticals
Physical Description: Cryst.
Melting Point: Mp 71°
Boiling Point: Bp 265°
Solubility: Insol. H_2O; sol. most org. solvs.
Hazard & **Toxicity:** Fl. p. 127°. Mod. toxic, exp. teratogen. OES: long-term 100 ppm

Aldrich: 24002-8
Fluka: 34750
Sigma: B1378
Supelco: 4-7168

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1094D, *(ir)*
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 285A, *(nmr)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1031C, *(ir)*
U.S. Pat., 1948, 2 428 745; *CA*, **42**, 354
Adv. Chem. Ser., 1955, **15**, 313, *(**props**)*
Kaemmerer, H. *et al.*, *Spectrochim. Acta A*, 1968, **24**, 2059, *(uv)*
Kalinowski, H.O. *et al.*, *Org. Magn. Reson.*, 1975, **7**, 128, *(cmr)*
Iimura, Y. *et al.*, *Acta Cryst. C*, 1983, **39**, 778, *(cryst struct)*
Ford, R.A. *et al.*, *Food Chem. Toxicol.*, 1988, **26**, 359, *(361)*
Handbook of Pharmaceutical Excipients, 2nd edn., (eds. Wade, A. *et al*), American Pharmaceutical Association/Pharmaceutical Press, 1994, 47-48
Martindale, The Extra Pharmacopoeia, 31st edn., Pharmaceutical Press, 1996, 1121
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, BFW750