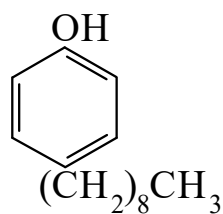




>>Entry Name: 4-Nonylphenol, 9CI



CAS Registry Number: 104-40-5

Related CAS Registry Numbers(s): 28987-17-9

Extra CAS Registry Numbers(s): 25154-52-3

Molecular Formula: C₁₅H₂₄O

Molecular Weight: 220.354

Accurate Mass: 220.182715

Percentage Composition: C 81.76%; H 10.98%; O 7.26%

Source/Synthesis: Environmetal pollutant arising from the degradation of nonionic surfactants in sewage

Biological Source: Constit. of the temporal gland secretions of elephants (*Elephas* spp.). Also found in the pheromone of *Anthonomus grandis* (boll weevil)

Use/Importance: Used in the manuf. of resins, plasticisers, surfactants and lubricating oils

Melting Point: Mp 41-42.5°

Boiling Point: Bp₁₀ 180-181°. Bp_{1.3} 140-142°

Hazard & Toxicity: *p*-Alkylphenols have estrogenic props. and have been implicated in feminisation of wildlife. Skin and eye irritant. LD₅₀ (rat, orl) 160 mg/kg

Fluka: 74430

Rare Chemicals Library: S55836-2

>>Derivative: Phosphite (3:1)

CAS Registry Number: 3050-88-2

Molecular Formula: C₄₅H₆₉O₃P

Molecular Weight: 689.012

Accurate Mass: 688.498432

Percentage Composition: C 78.44%; H 10.09%; O 6.97%; P 4.50%

Use/Importance: Stabiliser for polymers

Physical Description: Light amber oil

Density: d²⁵ 0.984

Refractive Index: n_D²⁰ 1.5262

>>Derivative: Benzoyl

CAS Registry Number: 6316-62-7

Molecular Formula: C₂₂H₂₈O₂

Molecular Weight: 324.462

Accurate Mass: 324.20893

Percentage Composition: C 81.44%; H 8.70%; O 9.86%

Melting Point: Mp 36.2°

>>Derivative: Me ether

Synonym(s): 1-Methoxy-4-nonylbenzene, 9CI

CAS Registry Number: 32588-84-4

Molecular Formula: C₁₆H₂₆O

Molecular Weight: 234.381

Accurate Mass: 234.198365

Percentage Composition: C 81.99%; H 11.18%; O 6.83%

Boiling Point: Bp_{0.5} 140°

References: