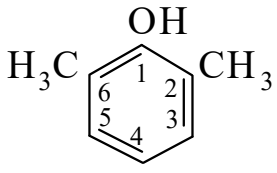
>>**Entry Name: 2,6-Dimethylphenol,** 9CI
ENTRY UNDER REVIEW
Synonym(s): 2,6-Xylenol, 8CI. *m*-2-Xylenol. 2-Hydroxy-*m*-xylene. 1,3,2-Xylenol. FEMA 3249



CAS Registry Number: 576-26-1
Extra CAS Registry Numbers(s): 1300-71-6 25155-23-1
Type of Compound Code(s): PS8300 VG0010 WI4400 WI4000 WE9999 PS7700 PA2750

Molecular Formula: $C_8H_{10}O$
Molecular Weight: 122.166
Accurate Mass: 122.073165
Percentage Composition: C 78.65%; H 8.25%; O 13.10%
Biological Source: Isol. from a Siberian conifer. Manuf. by vapour-phase alkylation of phenol with methanol
Use/Importance: Used as 0.1% soln. in glac. AcOH for extraction-photometric detn. of $NO_3^{(-)}$ (λ_{max} 432 nm, ε 7900, toluene). Monomer for engineering plastic poly(phenylene oxide)
Physical Description: Leaflets or flat needles
Melting Point: Mp 49°
Boiling Point: Bp 203°
Solubility: Sol. EtOH, AcOH; mod. sol. H_2O
pKa Value: pK_a 10.62 (25°)
Other Data: Undergoes condensation polym. by oxidative coupling to give poly(phenylene oxide)
Hazard & Toxicity: Eye irritant. LD_{50} (rat, orl) 296 mg/kg

Aldrich: D17500-5
Fluka: 41350
Sigma: D4261
Supelco: R42-8058

>>**Derivative:** Ac

CAS Registry Number: 876-98-2
Molecular Formula: $C_{10}H_{12}O_2$
Molecular Weight: 164.204
Accurate Mass: 164.08373
Percentage Composition: C 73.15%; H 7.37%; O 19.49%
Physical Description: Oil
Boiling Point: Bp 215-216°. $Bp_{0.3}$ 60°

>>**Derivative:** 4-Nitrobenzoyl

Physical Description: Cryst.
Melting Point: Mp 99°

>>**Derivative:** Me ether
Synonym(s): 2-Methoxy-1,3-dimethylbenzene. 2,6-Dimethylanisole

CAS Registry Number: 1004-66-6
Molecular Formula: $C_9H_{12}O$
Molecular Weight: 136.193
Accurate Mass: 136.088815
Percentage Composition: C 79.37%; H 8.88%; O 11.75%
Physical Description: Liq.
Boiling Point: Bp 182-183°. Bp_{20} 79°
Aldrich: D14640-4