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>>Entry Name: 3-Fluoro-4-methylphenol

Synonym(s): 3-Fluoro-*p*-cresol. 2-Fluoro-4-hydroxytoluene

CAS Registry Number: 452-78-8

Structure by analogy with 2-Fluoro-3-methylphenol, [FPW29-W](#)

Molecular Formula: C<sub>7</sub>H<sub>7</sub>FO

Molecular Weight: 126.13

Accurate Mass: 126.048093

Percentage Composition: C 66.66%; H 5.59%; F 15.06%; O 12.68%

Melting Point: Fp 30.1°

Boiling Point: Bp 194-196°. Bp<sub>25</sub> 105-110°

>>Derivative: Benzoyl

Molecular Formula: C<sub>14</sub>H<sub>11</sub>FO<sub>2</sub>

Molecular Weight: 230.238

Accurate Mass: 230.074308

Percentage Composition: C 73.03%; H 4.82%; F 8.25%; O 13.90%

Physical Description: Plates (EtOH)

Melting Point: Mp 77°

>>Derivative: Me ether

Synonym(s): 1-Fluoro-3-methoxy-6-methylbenzene. 3-Fluoro-4-methylanisole. 2-Fluoro-4-methoxytoluene

Molecular Formula: C<sub>8</sub>H<sub>9</sub>FO

Molecular Weight: 140.157

Accurate Mass: 140.063743

Percentage Composition: C 68.56%; H 6.47%; F 13.56%; O 11.42%

Physical Description: Oil

Boiling Point: Bp<sub>10</sub> 63.5-64°

References:

Brown, J.H. *et al.*, *J.C.S., Suppl.*, 1949, **1**, 95, (*synth*)

Lock, G., *Monatsh. Chem.*, 1959, **90**, 680, (*synth*)

*U.S. Pat.*, 1960, 2 950 325; *CA*, **55**, 7359, (*synth*)

Hoyer, H. *et al.*, *Z. Naturforsch., B*, 1965, **20**, 617, (*deriv*)