



>>Entry Name: 4-Aminopyrazole  
Synonym(s): 1*H*-Pyrazol-4-amine, 9CI

CAS Registry Number: 28466-26-4

Molecular Formula: C<sub>3</sub>H<sub>5</sub>N<sub>3</sub>  
Molecular Weight: 83.093  
Accurate Mass: 83.048347  
Percentage Composition: C 43.36%; H 6.06%; N 50.57%  
Melting Point: Mp 80-82°  
pKa Value: p*K*<sub>a</sub> 5.57 (25°, H<sub>2</sub>O)  
Other Data: Hygroscopic, sublimes, dimorphic

>>Derivative: Picrate

Melting Point: Mp 193-196°

>>Derivative: 4,4-Di-*N*-benzoyl

Molecular Formula: C<sub>17</sub>H<sub>13</sub>N<sub>3</sub>O<sub>2</sub>  
Molecular Weight: 291.309  
Accurate Mass: 291.100777  
Percentage Composition: C 70.09%; H 4.50%; N 14.42%; O 10.98%  
Physical Description: Cryst. (EtOH)  
Melting Point: Mp 173°

>>Derivative: 1-Me

Synonym(s): 4-Amino-1-methylpyrazole

Molecular Formula: C<sub>4</sub>H<sub>7</sub>N<sub>3</sub>  
Molecular Weight: 97.119  
Accurate Mass: 97.063997  
Percentage Composition: C 49.47%; H 7.26%; N 43.27%  
pKa Value: p*K*<sub>a</sub> 5.52 (25°, H<sub>2</sub>O)

>>Derivative: 1-Ph

Synonym(s): 4-Amino-1-phenylpyrazole

Molecular Formula: C<sub>9</sub>H<sub>9</sub>N<sub>3</sub>  
Molecular Weight: 159.19  
Accurate Mass: 159.079647  
Percentage Composition: C 67.91%; H 5.70%; N 26.40%  
Melting Point: Mp 250-252 dec.° (as hydrochloride)  
pKa Value: p*K*<sub>a</sub> 4.6

#### References:

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Garrone, A. *et al.*, *J.C.S. Perkin 2*, 1989, 1941, (*N-15 nmr, derivs*)  
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