Nitrogen Molecular Orbitals

AM1 Level Filled Molecular Orbitals, 1.1056Å exp. bond length. **Nitrogen**

Mugen					
MO:	1	2	3	4	5
Eigenvalues: (kcal/mol)	-41.39274	-21.43030	-16.19188	-16.19188	-14.32296
	σ(2s)	$\sigma^*(2s)$	$\pi(2p_V)$	$\pi(2p_{X})$	$\sigma(2p_z)$
1 N 1 S	-0.62096	-0.64963	0.00000	0.00000	-0.33824
2 N 1 PX	0.00000	0.00000	0.01887	0.70685	0.00000
3 N 1 PY	0.00000	0.00000	0.70685	-0.01887	0.00000
4 N 1 PZ	-0.33824	0.27924	0.00000	0.00000	0.62096
5 N 2 S	-0.62096	0.64963	0.00000	0.00000	-0.33824
6 N 2 PX	0.00000	0.00000	0.01887	0.70685	0.00000
7 N 2 PY	0.00000	0.00000	0.70685	-0.01887	0.00000
8 N 2 PZ	0.33824	0.27924	0.00000	0.00000	-0.62096
% p character	22.8%	15.6%	100%	100%	77.1%

%p character =
$$\frac{\sum p \ coefficients^2}{s \ coefficient^2 + \sum p \ coefficients^2}$$

