



>>Entry Name: Yttrium nitride, 9CI

CAS Registry Number: 25764-13-0
YN

Molecular Formula: NY

Molecular Weight: 102.913

Accurate Mass: 102.908923

Percentage Composition: N 13.61%; Y 86.39%

Source/Synthesis: Synth. from $\text{Li}_3\text{N} + \text{YCl}_3$ in an evacuated glass ampoule at 400° for *ca.* 1 min., or from $\text{YH}_2 + \text{N}_2$ at 900°

Physical Description: Dark grey powder which hydrolyses in air

Density: d_4^{20} 5.6

Other Data: Mp $\geq 2670^\circ$

References:

Kempter, C.P. *et al.*, *J. Phys. Chem.*, 1957, **61**, 1237-1238, (*synth, props*)

Fitzmaurice, J.C. *et al.*, *Polyhedron*, 1993, **13**, 235-240, (*synth*)

Ram, R.S. *et al.*, *J. Mol. Spectrosc.*, 1994, **165**, 97-106, (*emission*)

Mattausch, H. *et al.*, *Z. Naturforsch., B*, 1995, **50**, 931-936, (*synth*)