



>>Entry Name: **2,2,4,4,6,8,8-Heptamethylnonane**, 9CI, 8CI

CAS Registry Number: 4390-04-9

$(\text{H}_3\text{C})_3\text{CCH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2\text{C}(\text{CH}_3)_3$

Molecular Formula: $\text{C}_{16}\text{H}_{34}$

Molecular Weight: 226.445

Accurate Mass: 226.26605

Percentage Composition: C 84.87%; H 15.13%

>>**Variant:** ($\pm$)-form

CAS Registry Number: 125803-38-5

Molecular Formula: $\text{C}_{16}\text{H}_{34}$

Molecular Weight: 226.445

Accurate Mass: 226.26605

Percentage Composition: C 84.87%; H 15.13%

Use/Importance: Used as the low quality reference fuel in measurements of diesel fuel cetane number using ASTM D613

Boiling Point: Bp 240°

Density: d 0.79

Refractive Index: n_D^{20} 1.4399

References:

Mears, T.W. *et al.*, *ASTM Bull.*, 1960, **245**, 75-78, (*use, synth, props*)

Kirk-Othmer Encycl. Chem. Technol., 2nd edn., Wiley, 1963, **10**, 485-486, (*use*)

Fischer, P. *et al.*, *Angew. Chem.*, 1990, **102**, 439-441, (*glc, resoln*)

Daubert, T.E., *J. Chem. Eng. Data*, 1996, **41**, 365-372, (*props*)