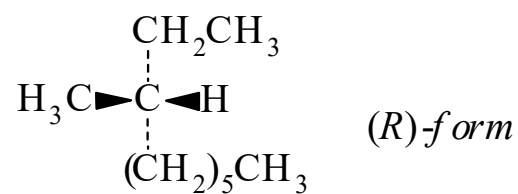




>>Entry Name: 3-Methylnonane, 9CI



CAS Registry Number: 5911-04-6

Molecular Formula: C<sub>10</sub>H<sub>22</sub>

Molecular Weight: 142.284

Accurate Mass: 142.17215

Percentage Composition: C 84.42%; H 15.58%

Fluka: 68080

Rare Chemicals Library: S41206-6

>>Variant: (R)-form

Molecular Formula: C<sub>10</sub>H<sub>22</sub>

Molecular Weight: 142.284

Accurate Mass: 142.17215

Percentage Composition: C 84.42%; H 15.58%

Boiling Point: Bp<sub>16</sub> 57°

Optical Rotation: [α]<sub>D</sub><sup>25</sup> -6.29

Density: d<sub>4</sub><sup>25</sup> 0.73

Refractive Index: n<sub>D</sub><sup>24</sup> 1.4113

>>Variant: (S)-form

CAS Registry Number: 53213-47-1

Molecular Formula: C<sub>10</sub>H<sub>22</sub>

Molecular Weight: 142.284

Accurate Mass: 142.17215

Percentage Composition: C 84.42%; H 15.58%

Boiling Point: Bp<sub>39</sub> 80°

Optical Rotation: [α]<sub>D</sub><sup>25</sup> +9.3

Density: d<sub>4</sub><sup>25</sup> 0.73

Refractive Index: n<sub>D</sub><sup>24</sup> 1.4110

>>Variant: (±)-form

Molecular Formula: C<sub>10</sub>H<sub>22</sub>

Molecular Weight: 142.284

Accurate Mass: 142.17215

Percentage Composition: C 84.42%; H 15.58%

Melting Point: Mp -84.9°

Boiling Point: Bp 167.8°

Refractive Index: n<sub>D</sub><sup>20</sup> 1.4126

#### References:

Levene, P.A. *et al.*, *J. Biol. Chem.*, 1922, **54**, 356, (*synth*)

Calingaert, G. *et al.*, *J.A.C.S.*, 1936, **58**, 635, (*synth*)

Letsinger, R.L. *et al.*, *J.A.C.S.*, 1950, **72**, 849, (*abs config*)