

Answer on Question #73099, Chemistry / General Chemistry

Rank the four compounds that contain two carbons from lowest to highest boiling point

ethane C_2H_6

methoxymethane C_2H_6O (CH_3OCH_3)

ethanol C_2H_6O (CH_3CH_2OH)

ethanoic acid $C_2H_4O_2$ (CH_3COOH)

Answer

1. ethane C_2H_6 $-88.5^\circ C$
2. methoxymethane C_2H_6O (CH_3OCH_3) $-24^\circ C$
3. ethanol C_2H_6O (CH_3CH_2OH) $78.3^\circ C$
4. ethanoic acid $C_2H_4O_2$ (CH_3COOH) $118^\circ C$

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