Benzene, (1-methylethyl)-

Other names: (1-Methylethyl)benzene; (1-methylethyl)benzene (cumene); (Methylethyl)benzene; 2-Fenilpropano; 2-Fenyl-propaan; 2-Phenylpropane; Benzene, i-propyl-; Benzene, isopropyl-; Cumeen; Cumene; Cumol; Isopropilbenzene; Isopropylbenzenen; Isopropylbenzene; Isopropylbenzol; NSC 8776; Propane, 2-phenyl-; Rcra waste number U055; UN 1918; i-Propylbenzene; iso-propylbenzene (cumene).

InChI: InChI=1S/C9H12/c1-8(2)9-6-4-3-5-7-9/h3-8H,1-2H3

InChI Key: RWGFKTVRMDUZSP-UHFFFAOYSA-N

Formula: C9H12

SMILES: CC(C)c1ccccc1

Molecular Weight: 120.19

CAS: 98-82-8

### Physical Properties

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**Sources**

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C9H12/c1-8(2)9-6-4-3-5-7-9/h3-8H,1-2H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C9H12/c1-8(2)9-6-4-3-5-7-9/h3-8H,1-2H3)

**Legend**

**PAff**: Proton affinity (kJ/mol).
**BasG**: Gas basicity (kJ/mol).
$\Delta_{\text{c}} H^o_{\text{liquid}}$: Standard liquid enthalpy of combustion (kJ/mol).
$C_{p,\text{gas}}$: Ideal gas heat capacity (J/mol×K).
$C_{p,\text{liquid}}$: Liquid phase heat capacity (J/mol×K).
$\eta$: Dynamic viscosity (Pa×s).
$\Delta_{\text{G}}^o$: Standard Gibbs free energy of formation (kJ/mol).
$\Delta_{\text{H}}^o_{\text{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).
$\Delta_{\text{H}}^o_{\text{liquid}}$: Liquid phase enthalpy of formation at standard conditions (kJ/mol).
$\Delta_{\text{fus}} H^o$: Enthalpy of fusion at standard conditions (kJ/mol).
$\Delta_{\text{fus}} H$: Enthalpy of fusion at a given temperature (kJ/mol).
$\Delta_{\text{vap}} H^o$: Enthalpy of vaporization at standard conditions (kJ/mol).
$\Delta_{\text{vap}} H$: Enthalpy of vaporization at a given temperature (kJ/mol).
IE: Ionization energy (eV).
$log P_{\text{oct/wat}}$: Octanol/Water partition coefficient.
$P_c$: Critical Pressure (kPa).
$\Delta_{\text{fus}} S$: Entropy of fusion at a given temperature (J/mol×K).
$S^o_{\text{gas}}$: Molar entropy at standard conditions (J/mol×K).
$S^o_{\text{liquid}}$: Liquid phase molar entropy at standard conditions (J/mol×K).
$T_{\text{boil}}$: Normal Boiling Point Temperature (K).
$T_c$: Critical Temperature (K).
$T_{\text{fus}}$: Normal melting (fusion) point (K).
$T_{\text{triple}}$: Triple Point Temperature (K).
$V_{c}$: Critical Volume (m$^3$/kg-mol).

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