Propylene oxide

Other names: (±/-)-1,2-Epoxypropane; (±/-)-Methyloxirane; 1,2-Epoxypropane; 1,2-Propylene oxide; 2,3-Epoxypropane; 2-Methyl oxirane; 2-Methyloxiran; 3-Methyl-1,2-epoxypropane; AD 6; AD 6 (suspending agent); Epihydrin; Epoxyp propane; Ethylene oxide, methyl-; M ethylethylene oxide; Methyloxacyclopropane; Methyloxirane; NCI-C50099; Oxirane, 2-methyl-; Oxirane, methyl-; O xyde de propylene; Propane, 1,2-epoxy-; Propane, epoxy-; Propene oxide; Propylene epoxide; UN 1280.

InChI: InChI=1S/C3H6O/c1-3-2-4-3/h3H,2H2,1H3

InChI Key: GOOHAUXETOMSMM-UHFFFAOYSA-N

Formula: C3H6O

SMILES: CC1CO1

Molecular Weight: 58.08

CAS: 75-56-9

Physical Properties

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## Temperature Dependent Properties

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</tbody>
</table>

### Sources

- **NIST Webbook**: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C3H6O/c1-3-2-4-3/h3H,2H2,1H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C3H6O/c1-3-2-4-3/h3H,2H2,1H3)

### Legend

- **PAff**: Proton affinity (kJ/mol).
- **BasG**: Gas basicity (kJ/mol).
- $\Delta_c^H_{\text{liquid}}$: 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).
- $\Delta_G^o$: Standard Gibbs free energy of formation (kJ/mol).
- $\Delta_{H^o,\text{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).
Δ\textsubscript{H}^\textcircled{\text{liquid}}: Liquid phase enthalpy of formation at standard conditions (kJ/mol).

Δ\textsubscript{fus}H\textcircled{\text{fus}}: Enthalpy of fusion at standard conditions (kJ/mol).

Δ\textsubscript{fus}H\textsubscript{fus}: Enthalpy of fusion at a given temperature (kJ/mol).

Δ\textsubscript{vap}H\textcircled{\text{vap}}: Enthalpy of vaporization at standard conditions (kJ/mol).

Δ\textsubscript{vap}H: Enthalpy of vaporization at a given temperature (kJ/mol).

IE: Ionization energy (eV).

log\textsubscript{P\text{oct/wat}}: Octanol/Water partition coefficient.

P\textsubscript{c}: Critical Pressure (kPa).

Δ\textsubscript{fus}S\textsubscript{fus}: Entropy of fusion at a given temperature (J/mol×K).

S^\circ\textsubscript{gas}: Molar entropy at standard conditions (J/mol×K).

S^\circ\textsubscript{liquid}: Liquid phase molar entropy at standard conditions (J/mol×K).

T\textsubscript{boil}: Normal Boiling Point Temperature (K).

T\textsubscript{c}: Critical Temperature (K).

T\textsubscript{fus}: Normal melting (fusion) point (K).

T\textsubscript{triple}: Triple Point Temperature (K).

V\textsubscript{c}: Critical Volume (m\textsuperscript{3}/kg-mol).

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