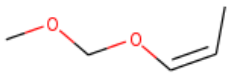
1-Propene, 1-(methoxymethoxy)-, (Z)-

InChI: InChI=1S/C5H10O2/c1-3-4-7-5-6-2/h3-4H,5H2,1-2H3/b4-3-
InChI Key: IMJCADJBSWXYAC-ARJAWSKDSA-N
Formula: C5H10O2
SMILES: CC=COCOC
Molecular Weight: 102.13
CAS: 62322-39-8



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	-138.56	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-293.75	kJ/mol	Joback Method
$\Delta_{fus} H°$	11.28	kJ/mol	Joback Method
$\Delta_{vap} H°$	31.50	kJ/mol	Joback Method
$logP_{oct/wat}$	1.14		Crippen Method
P_c	3543.08	kPa	Joback Method
T_{boil}	362.80	K	Joback Method
T_c	537.14	K	Joback Method
T_{fus}	185.49	K	Joback Method
V_c	0.33	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	155.14	J/mol×K	362.8	Joback Method
η	0.00	Pa×s	362.8	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C5H10O2/c1-3-4-7-5-6-2/h3-4H,5H2,1-2H3/b4-3-
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/mol×K).
η: Dynamic viscosity (Pa×s).
Δ_f**G°**: Standard Gibbs free energy of formation (kJ/mol).
Δ_f**H°$_{gas}$**: Enthalpy of formation at standard conditions (kJ/mol).
Δ_{fus}**H°**: Enthalpy of fusion at standard conditions (kJ/mol).
Δ_{vap}**H°**: Enthalpy of vaporization at standard conditions (kJ/mol).
***log*P$_{oct/wat}$**: Octanol/Water partition coefficient .
P_c: Critical Pressure (kPa).
T_{boil}: Normal Boiling Point Temperature (K).
T_c: Critical Temperature (K).
T_{fus}: Normal melting (fusion) point (K).
V_c: Critical Volume (m^3/kg-mol).