CH3O[CH2CH2CH2O]3CH3

InChI: InChI=1S/C11H24O4/c1-12-6-3-8-14-10-5-11-15-9-4-7-13-2/h3-11H2,1-2H3
InChI Key: TTYHFEHZJTWHNB-UHFFFAOYSA-N
Formula: C11H24O4
SMILES: COCCCOCCCOCCCOC
Molecular Weight: 220.31
CAS: 66226-75-3

Physical Properties

Property	Value	Unit	Source
BasG	895.10	kJ/mol	NIST Webbook
$\Delta_f G°$	-378.26	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-799.25	kJ/mol	Joback Method
$\Delta_{fus} H°$	29.00	kJ/mol	Joback Method
$\Delta_{vap} H°$	49.72	kJ/mol	Joback Method
$logP_{oct/wat}$	1.48		Crippen Method
P_c	1823.17	kPa	Joback Method
T_{boil}	540.76	K	Joback Method
T_c	702.54	K	Joback Method
T_{fus}	302.65	K	Joback Method
V_c	0.72	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	471.43	J/mol×K	540.76	Joback Method
η	0.00	Pa×s	540.76	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H24O4/c1-12-6-3-8-14-10-5-11-15-9-4-7-13-2/h3-11H2,1-2H3
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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