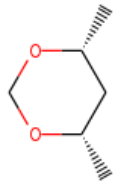
1,3-Dioxane, 4,6-dimethyl-, cis-

InChI: InChI=1S/C6H12O2/c1-5-3-6(2)8-4-7-5/h5-6H,3-4H2,1-2H3/t5-,6+
InChI Key: OCBJIXQOIASAQK-OLQVQODUSA-N
Formula: C6H12O2
SMILES: CC1CC(C)OCO1
Molecular Weight: 116.16
CAS: 3390-18-9



Physical Properties

Property	Value	Unit	Source
$\Delta_c H°_{liquid}$	-3601.30 ± 2.40	kJ/mol	NIST Webbook
$\Delta_f G°$	-155.86	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-397.19	kJ/mol	Joback Method
$\Delta_f H°_{liquid}$	-474.80 ± 2.40	kJ/mol	NIST Webbook
$\Delta_{fus} H°$	20.16	kJ/mol	Joback Method
$\Delta_{vap} H°$	38.09	kJ/mol	Joback Method
$logP_{oct/wat}$	1.16		Crippen Method
P_c	3718.02	kPa	Joback Method
T_{boil}	388.15 ± 1.50	K	NIST Webbook
T_c	610.20	K	Joback Method
T_{fus}	213.66	K	Joback Method
V_c	0.35	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	193.64	J/mol×K	405.46	Joback Method

Property	Value	Unit	Temperature (K)	Source
η	0.00	Pa×s	405.46	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C6H12O2/c1-5-3-6(2)8-4-7-5/h5-6H,3-4H2,1-2H3/t5-,6+
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

Δ_c**H°**$_{liquid}$: Standard liquid enthalpy of combustion (kJ/mol).
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_f**H°**$_{liquid}$: Liquid phase 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).