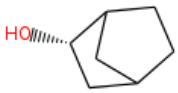
exo-Norbornyl alcohol

Other names: 2-Norbornanol, exo-; 2-exo-Norbornanol; 2-exo-Norborneol; Bicyclo[2.2.1]heptan-2-ol, (1R,2R,4S)-rel-; Bicyclo[2.2.1]heptan-2-ol, exo-; NSC 167460; exo-2-Norbornanol; exo-2-Norborneol; exo-2-Norbornyl alcohol; exo-Bicyclo[2.2.1]heptan-2-ol; exo-Norbornanol; exo-Norborneol.



InChI: InChI=1S/C7H12O/c8-7-4-5-1-2-6(7)3-5/h5-8H,1-4H2/t5?,6?,7-/m1/s1

InChI Key: ZQTYQMYDIHMKQB-KPGICGJXSA-N

Formula: C7H12O

SMILES: OC1CC2CCC1C2

Molecular Weight: 112.17

CAS: 497-37-0

Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	-27.07	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-220.94	kJ/mol	Joback Method
$\Delta_f H°_{liquid}$	-279.00 ± 2.00	kJ/mol	NIST Webbook
$\Delta_f H°_{solid}$	-281.00 ± 2.00	kJ/mol	NIST Webbook
$\Delta_{fus} H°$	13.21	kJ/mol	Joback Method
$\Delta_{vap} H°$	52.50	kJ/mol	NIST Webbook
$logP_{oct/wat}$	1.17		Crippen Method
P_c	4183.90	kPa	Joback Method
T_{boil}	449.70	K	NIST Webbook
T_c	657.72	K	Joback Method
T_{fus}	257.59	K	Joback Method
V_c	0.35	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	217.81	J/mol×K	464.82	Joback Method
η	0.00	Pa×s	464.82	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook:
http://webbook.nist.gov/cgi/inchi/InChI=1S/C7H12O/c8-7-4-5-1-2-6(7)3-5/h5-8H,1-4H2/t5?,6?,7-/m1/s1
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_f**H°$_{liquid}$**: Liquid phase enthalpy of formation at standard conditions (kJ/mol).
Δ_f**H°$_{solid}$**: Solid 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).