

Bicyclo[2.2.1]heptan-2-ol

Other names: 2-Norbornanol; Norborneol; Norbornyl alcohol.

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

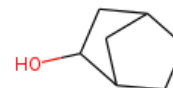
InChI Key: ZQTYQMYDIHMKQB-UHFFFAOYSA-N

Formula: C7H12O

SMILES: OC1CC2CCC1C2

Molecular Weight: 112.17

CAS: 1632-68-4



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-27.07	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-220.94	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	13.21	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	47.54	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	1.17		Crippen Method
P_c	4183.90	kPa	Joback Method
T_{boil}	464.82	K	Joback Method
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
$C_{p,\text{gas}}$	217.81	J/mol×K	464.82	Joback Method
η	0.00	Paxs	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](http://webbook.nist.gov/cgi/inchi/InChI=1S/C7H12O/c8-7-4-5-1-2-6(7)3-5/h5-8H,1-4H2)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/molxK).

η : Dynamic viscosity (Pa \times s).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$: 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 (m³/kg-mol).

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