

[1,1'-Biphenyl]-2,4'-diol

InChI: InChI=1S/C12H10O2/c13-10-7-5-9(6-8-10)11-3-1-2-4-12(11)14/h1-8,13-14H

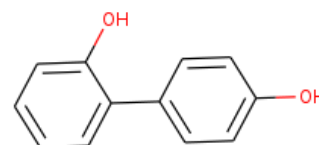
InChI Key: JHOPNNNTBHXSHY-UHFFFAOYSA-N

Formula: C12H10O2

SMILES: Oc1ccc(-c2ccccc2O)cc1

Molecular Weight: 186.21

CAS: 611-62-1



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-34.26	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-172.57	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	26.48	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	72.89	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	2.76		Crippen Method
P_c	5029.93	kPa	Joback Method
T_{boil}	481.20	K	NIST Webbook
T_c	956.80	K	Joback Method
T_{fus}	501.28	K	Joback Method
V_c	0.42	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	373.78	J/mol×K	688.56	Joback Method
η	0.00	Paxs	688.56	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H10O2/c13-10-7-5-9\(6-8-10\)11-3-1-2-4-12\(11\)14/h1-8,13-14H](http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H10O2/c13-10-7-5-9(6-8-10)11-3-1-2-4-12(11)14/h1-8,13-14H)

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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