

1,3-Benzenediol, 4-ethyl-

Other names: 1,3-Dihydroxy-4-ethylbenzene;
2,4-Dihydroxy-1-ethylbenzene; 4 Ethyl 1,3-benzenediol; 4-Ethylresorcinol;
6-Ethylresorcinol; Resorcinol, 4-ethyl-

InChI: InChI=1S/C8H10O2/c1-2-6-3-4-7(9)5-8(6)10/h3-5,9-10H,2H2,1H3

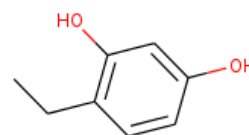
InChI Key: VGMJYYDKPUPTID-UHFFFAOYSA-N

Formula: C8H10O2

SMILES: CCc1ccc(O)cc1O

Molecular Weight: 138.16

CAS: 2896-60-8



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-180.35	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-326.54	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	22.08	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	61.71	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	1.66		Crippen Method
P_c	5430.51	kPa	Joback Method
T_{boil}	570.36	K	Joback Method
T_c	808.73	K	Joback Method
T_{fus}	429.78	K	Joback Method
V_c	0.31	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	269.81	J/mol×K	570.36	Joback Method
η	0.00	Paxs	570.36	Joback Method

Sources

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

NIST Webbook:

[http://webbook.nist.gov/cgi/inchi/InChI=1S/C8H10O2/c1-2-6-3-4-7\(9\)5-8\(6\)10/h3-5,9-10H,2H2,1H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C8H10O2/c1-2-6-3-4-7(9)5-8(6)10/h3-5,9-10H,2H2,1H3)

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

Legend

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

η : Dynamic viscosity (Paxs).

$\Delta_f G^\circ$: 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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